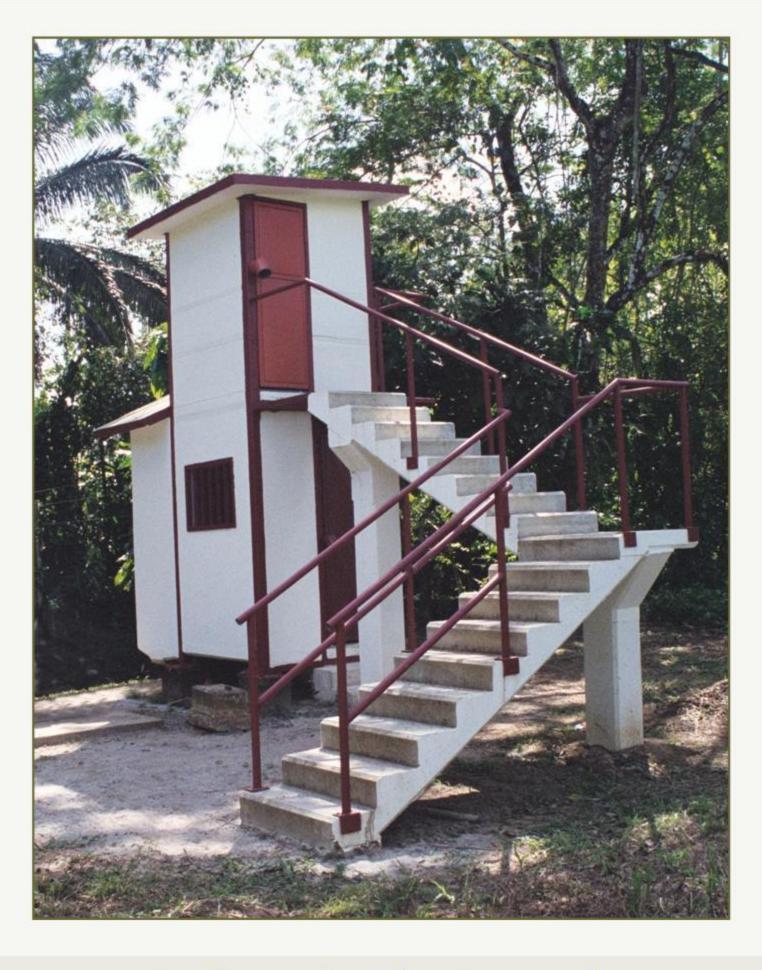
Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca Unidad de Operaciones



Pedro Miguel - Panamá Febrero 2007

AUTORIDAD DEL CANAL DE PANAMÁ DEPARTAMENTO DE AMBIENTE, AGUA Y ENERGÍA DIVISIÓN DE ADMINISTRACIÓN AMBIENTAL SECCIÓN DE MANEJO DE CUENCA UNIDAD DE OPERACIONES



ANUARIO HIDROLÓGICO 2006

REPÚBLICA DE PANAMÁ FEBRERO 2007

Reconocimiento

Esta publicación reconoce al técnico hidrólogo Clímaco E. Abadía A.; por sus más de 50 años de dedicación, empeño y esfuerzo en la medición, procesamiento, análisis y publicación de información hidrológica de los principales ríos y quebradas de la República de Panamá.

El Maestro, como con respeto y mucho cariño lo llamamos, transmitió sus conocimientos y habilidades de hidromensor, de una forma desinteresada y altruista, a todos sus compañeros y discípulos.

Durante el evento climatológico ocurrido en noviembre de 2006, el técnico Abadía midió el máximo caudal histórico del río Cirí Grande y apoyó a las comunidades cercanas que fueron afectadas por las inundaciones.



Prólogo

El artículo 316 de la Constitución Política de Panamá confiere a la Autoridad del Canal de Panamá la responsabilidad por la administración, mantenimiento, uso y conservación de los recursos hídricos de la Cuenca Hidrográfica del Canal de Panamá.

El conocimiento del recurso hídrico en términos de cantidad, calidad y disponibilidad resulta indispensable para el desarrollo, uso adecuado y sostenible del mismo. En ese sentido, es primordial que la información del caudal de los ríos de la Cuenca del Canal, sea precisa, confiable y esté actualizada.

Este anuario, producto del esfuerzo del personal de la Unidad de Operaciones de la Sección de Manejo de Cuenca, presenta la información de caudales para el año 2006 de quince estaciones hidrométricas, incluyendo, seis estaciones ubicadas en las cuencas de los ríos Indio y Coclé del Norte, cuyas áreas de drenaje fueron excluidas de la Cuenca del Canal con la derogación de la Ley 44 del 31 de agosto de 1999.

Autoridad del Canal de Panamá
Departamento de Ambiente, Agua y Energía
División de Administración Ambiental
Sección de Manejo de Cuenca
Unidad de Operaciones

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Aclaración

La <u>Ley 44 de 31 de Agosto de 1999</u>, estableció los límites de la Cuenca Hidrográfica del Canal de Panamá (CHCP). Utilizando las coordenadas geográficas establecidas en la ley, se identificaron dos regiones: la Región Oriental (ROR), también conocida como Cuenca Tradicional o Cuenca del Río Chagres y la Región Occidental (ROCC), formada por las subcuencas del río Indio, Toabré, Coclé del Norte y Caño Sucio.

Durante la vigencia de la Ley 44 de 31de Agosto de 1999, la ACP fue responsable de la operación y mantenimiento de las estaciones hidrometeorológicas ubicadas tanto en la Región Oriental como en la Occidental. Con la derogación de la Ley 44 por medio de la Ley 20 de 21 de junio de 2006, las estaciones localizadas en la Región Occidental dejan de ser operadas por la ACP.

Por considerar que la información es importante para el país, en este Anuario Hidrológico 2006 se incluyen los datos hidrológicos de la Región Occidental. También se presenta el mapa de la CHCP con la ubicación de las estaciones hidrometeorológicas de la Región Oriental y Occidental.

Índice

	Página
Reconocimiento	i
Prólogo	
Aclaración	iv
Índice	. v
Introducción	
Definición de términos	. 5
Símbolos y unidades	
Estación Chico en el río Chagres	
Estación Río Piedras en el Río Piedras	
Estación Candelaria en el río Pequení	. 21
Estación Peluca en el río Boquerón	
Estación Ciento en el río Gatún	
Estación El Chorro en el río Trinidad	45
Estación Los Cañones en el río Cirí Grande	. 53
Estación Caño Quebrado Abajo en el río Caño Quebrado	61
Estación de Nuevo San Juan en el río Gatuncillo	
Estación Boca de Uracillo en el río Indio	. 75
Estación Tres Hermanas en el río Indio	. 83
Estación El Silencio en el río Indio	. 87
Estación Las Marías en el río Uracillo	91
Estación Batatilla en el río Toabré	. 95
Estación Canoa en el río Coclé del Norte	103
Red de estaciones Hidrometeorológicas	. 111

Introducción

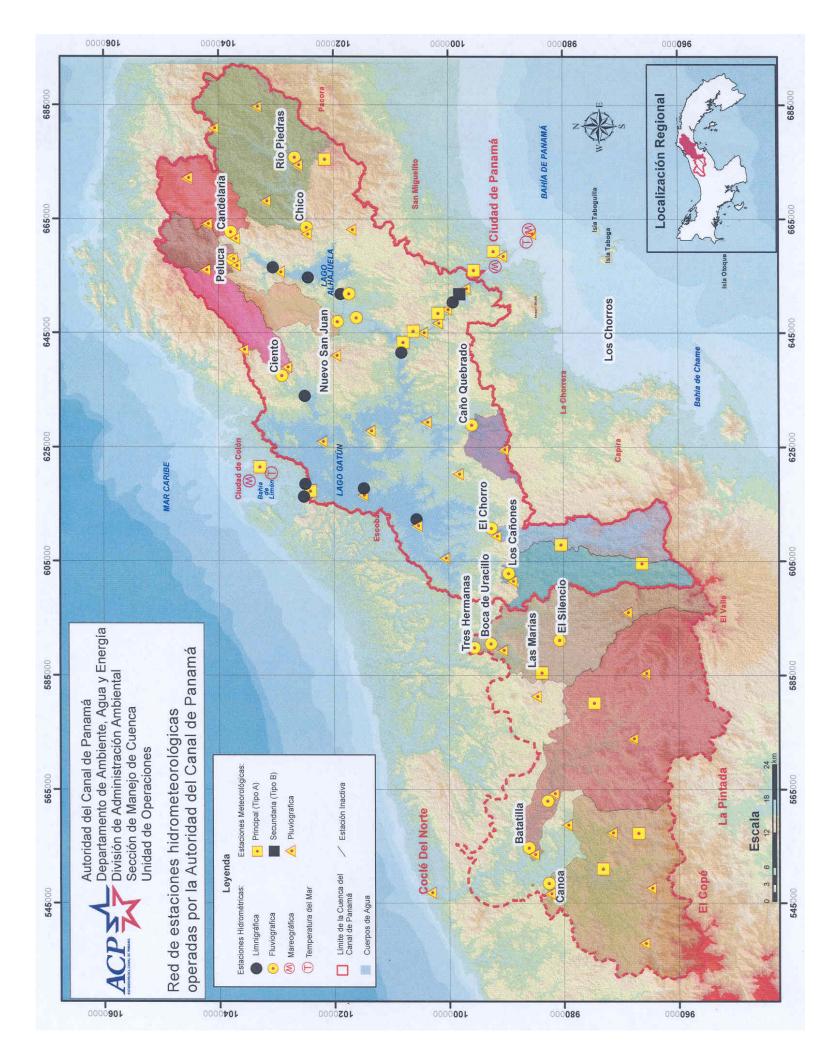
Dentro de las funciones más importantes que la ley le otorga a la Autoridad del Canal de Panamá (ACP) se encuentra el estudio, control y evaluación de la cantidad y calidad de los recursos hídricos en la Cuenca Hidrográfica del Canal de Panamá (CHCP), para garantizar el abastecimiento de agua para consumo de las poblaciones aledañas y el funcionamiento del Canal. Por esta razón, una de las tareas básicas que desarrolla la ACP, por medio de la Unidad de Operaciones de la Sección de Manejo de Cuenca, de la División de Administración Ambiental, es la evaluación de los recursos hídricos, y para ello instala, opera y mantiene la red hidrometeorológica en la CHCP y áreas operativas.

La planificación del aprovechamiento de los recursos hídricos necesita apoyarse en una serie de datos hidrometeorológicos confiables, que permita conocer tanto los recursos hídricos de que se dispone como los caudales extremos que podrían ser utilizados con fines diversos, por ejemplo, delimitar las zonas de inundación, dimensionar futuras obras hidráulicas u otorgar concesiones de agua. Estos registros constituyen, además, el punto de partida insustituible para todo estudio hidrológico, hidráulico y ambiental.

La red de estaciones hidrometeorológicas operadas por la ACP posee 49 estaciones activas. La mayoría de ellas son telemétricas que registran y transmiten datos de diferentes parámetros en tiempo real: elevaciones de los ríos (11), elevación de los lagos (10), nivel de las mareas (3), precipitación pluvial (45), temperatura del mar (2) y otros datos meteorológicos como temperatura del aire, velocidad y dirección del viento, humedad relativa, radiación solar total y presión barométrica (9). Actualmente se realizan aforos de ríos una vez por mes en 10 estaciones y se miden sedimentos suspendidos en 7. Al final del documento se presenta el listado actualizado de las estaciones hidrológicas y meteorológicas con su respectiva ubicación, elevación, tipo de datos observados y fecha desde la cual se dispone de registro.

Esta publicación contiene los registros de caudales promedios diarios y caudales sólidos en suspensión del año 2006, para quince y diez estaciones respectivamente, localizadas en la cuenca de la vía interoceánica y áreas operativas del Canal, incluyendo seis estaciones hidrométricas ubicadas en las cuencas de los ríos Indio y Coclé del Norte, cuyas áreas de drenaje fueron excluidas de la Cuenca del Canal con la derogación de la Ley 44 del 31 de agosto de 1999. La información de caudal se presenta en los sistemas de medidas Inglés e Internacional (SI) y la de sedimentos suspendidos, sólo en este último sistema. El Anuario Hidrológico contiene la información tanto de caudales como de sólidos en suspensión registrados en las estaciones hidrométricas.

En el Anuario se incluyen tablas e hidrogramas con los caudales promedios diarios, caudales y elevaciones máximas instantáneas y mínimas diarias, láminas de agua y volúmenes de escorrentía, en milímetros (mm) y en millones de metros cúbicos (MMC), y caudales específicos mensuales y anuales en litros por segundo por kilómetro cuadrado (l/s/km²). Se incluyen, además, tablas con los resúmenes de promedios diarios de concentraciones de sedimentos en suspensión en miligramos por litro y el caudal de sedimentos en suspensión en toneladas por día. Además, se presentan mapas de los principales ríos y tributarios de la CHCP, y se muestra la ubicación y fotos de las estaciones hidrometeorológicas existentes en cada subcuenca.



Definición de términos

(Sistema Inglés e Internacional de Unidades)

Aforo (de caudales): medición del caudal de un río o corriente.

Área de drenaje: superficie/territorio que tiene una salida única para su escurrimiento superficial.

Caudal: volumen de agua que pasa a través de una sección transversal de un río por unidad de tiempo.

Caudal de sedimentos suspendidos o caudal sólido en suspensión (t/d, t/mes, t/año): cantidad de sedimentos suspendidos, medidos por peso seco o volumen, que pasa en una sección del río en un intervalo de tiempo dado. Expresado en toneladas por día, mes o año.

Caudal máximo instantáneo: valor máximo de caudal registrado instantáneamente en un período determinado.

Caudal mínimo diario: caudal promedio diario más bajo registrado en un mes, un año o todo el registro histórico.

Caudal promedio diario: caudal promedio diario que pasa a través de una sección transversal del río durante el día dividido por el número de segundos del día.

Código de la estación: número regional de las estaciones hidrológicas establecido a través del Proyecto Hidrológico Centroamericano (PHCA) de las Naciones Unidas (1968-1972).

Concentración de sedimentos suspendidos (mg/l): relación entre el peso de los materiales sólidos secos y el peso de una muestra de agua y sedimentos.

Cuenca hidrográfica: superficie de la tierra en la que confluyen los distintos ríos y corrientes de agua en un río principal y que está limitada por un parteaguas o divisoria que coincide generalmente con la línea más alta de las montañas.

Cuenca Hidrográfica del Canal de Panamá (CHCP): área geográfica en la que confluyen los distintos ríos y corrientes de agua al Canal de Panamá.

Curva de descarga de sedimentos suspendidos: curva que relaciona los caudales sólidos y líquidos: Qs = f(Q).

Elevación: distancia vertical entre un nivel, punto u objeto y una referencia especificada.

Escorrentía: lámina de agua distribuida uniformemente en el área de una cuenca o volumen de agua que pasa por una sección de un río o corriente durante un período de tiempo.

Estación fluviográfica: estación para la determinación de caudales por medio del registro continuo de los niveles de agua de un río en forma digital y gráfica.

Estación hidrométrica: estación en la cual se obtienen datos del agua, en los ríos, lagos o embalses, de uno o varios de los elementos siguientes: niveles, flujos de las corrientes, transporte y depósito de sedimentos, temperatura del agua y otras propiedades físicas y químicas del agua.

Estación limnigráfica: estación que registra continuamente los niveles de agua de un lago o embalse en forma digital y gráfica.

Estación mareográfica: estación que registra continuamente los niveles de agua en el mar en forma digital y gráfica.

Estación meteorológica: estación en la que se efectúan observaciones meteorológicas con la aprobación de los miembros interesados de la Organización Meteorológica Mundial (OMM).

Estación meteorológica principal (Tipo A): estación que registra lluvia (cantidad, duración e intensidad), temperatura del aire, humedad relativa, presión atmosférica, vientos (velocidad y dirección), radiación solar, evaporación y temperatura del suelo.

Estación meteorológica secundaria (Tipo B): estación que registra lluvia (cantidad, duración e intensidad), temperaturas extremas, humedad relativa.

Estación pluviográfica: estación en la que sólo se realizan observaciones continuas acerca de las precipitaciones pluviales.

Hidrograma: gráfica que muestra la variación del nivel, caudal, velocidad o de otras características de las corrientes de agua, con respecto al tiempo.

Localización: posición de la estación principal con respecto a los poblados y rasgos físicos en la vecindad incluyendo la latitud y longitud.

Nivel del agua: distancia de la superficie del agua de una corriente, lago o embalse con relación a un nivel de referencia determinado.

Producción anual de sedimentos suspendidos (t/año/km²): caudal sólido anual de sedimentos por unidad de superficie.

Red de estaciones hidrometeorológicas: conjunto de estaciones hidrológicas, meteorológicas y de puntos de observación situada en determinada zona (cuenca o región administrativa) que permite estudiar el régimen hidrológico y meteorológico, en el espacio y en el tiempo.

Rendimiento líquido o caudal específico (l/s/km²): caudal líquido de una cuenca por unidad de superficie, expresado en litros por segundo por kilómetros cuadrados.

Sedimentos: material transportado por el agua desde su lugar de origen al de depósito. En los cursos de agua, son los materiales aluviales llevados en suspensión o como arrastre de fondo.

Símbolos y Unidades

Elemente	Símbolo	Un	idades
Elemento	Símbolo	SI	Inglés
Área de una sección Área de la cuenca	A	m ² km ²	pie ² acre mi ²
Caudal	Q	m ³ /s	pie ³ /s
Caudal de sedimentos	Qs	t/d	
Caudal de sedimentos suspendidos por unidad de superficie (producción anual de sedimentos)	qs	t/año/km²	
Caudal por unidad de superficie (rendimiento o caudal específico)	q	l/s/km ²	pie ³ /s/mi ²
Concentración de sedimentos	c_{s}	mg/l	
Escorrentía	R	mm	pulgada
Volumen	V	MMC	acre pie

Unidades Utilizadas

Uni	idad / Sistema / Sí	mbolo	
Internacional	Símbolo	Inglés	Símbolo
kilómetro	km	milla	mi
litro	1	pulgada	plg
metro	m	pie	pie
milímetro	mm	acre	acre
segundo	S		
porcentaje	%		

Lista de Abreviaturas

Nombre	Abreviatura
Autoridad del Canal de Panamá	ACP
Organización Meteorológica Mundial	OMM
Proyecto Hidrológico Centroamericano	PHCA
Millones de metros cúbicos	MMC
Sistema Internacional	SI

00069 10 km. Escala 1:285,000 00089 680 000029 670 000099 099 1026000 103 0000101 1012000 Subcuenca del Río Chagres Límite de la Cuenca del Canal de Panamá Subcuenca del río Chagres Cuerpos de Agua Departamento de Ambiente, Agua y Energía División de Administración Ambiental 385 - 541 542 - 721 722 - 972 973 - 2000 Localización Regional Autoridad del Canal de Panamá (hasta la estación Chico) Sección de Manejo de Cuenca UNIDAD DE OPERACIONES Leyenda Principales (Tipo A) Ríos principales Estación Pluviografica Fluviografica Altitudes (metros) 0 - 47 48 - 141 142 - 250 251 - 384 Estación Estación

Estación Chico en el Río Chagres





LOCALIZACIÓN: La estación está a 2 km (1.2 mi) aguas arriba de la comunidad Emberá Drúa, en la provincia de Panamá, distrito de Panamá. Sus coordenadas geográficas son: 9° 15' 49" de latitud Norte y a 79° 30' 35" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-01-02

ÁREA DE DRENAJE: 414 km² (160 mi²)

PERIODO DE REGISTRO: Desde marzo de 1933 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal i		Elevació	on mínima	ı diaria	Cau míni dia	imo	Cau prom anı	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
22/nov.	294.90	89.89	53644	1519	20/mar.	269.97	82.29	273	7.72	1385	39.2

CAUDAL SÓLIDO:

Cor	ncentración (mg/l)		Rendimiento líquido	Producció sedim	n anual de ientos
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km ²
4045.1	1.5	219.5	94.7	273815	661

ESTACIÓN CHICO EN EL RÍO CHAGRES Caudales promedios diarios en pie³/s

Sensor 5311 Latitud 9° 15' 49" N Longitud 79° 30' 35" O Año: 2006

Area de drenaje:160 mi² Elevación: 340 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	471	645	513	940	741	751	877	1018	1397	756	1068	1964
2	463	616	376	704	732	725	813	2453	1276	728	1172	2144
3	454	533	358	590	1264	675	812	1177	1327	2110	918	2811
4	433	473	338	506	1380	1711	1522	980	1436	1036	812	2127
5	527	725	342	443	1502	1126	1140	1040	1203	960	784	1792
6	441	604	353	426	7958	742	838	909	1430	1323	863	1751
7	487	487	327	424	3103	918	795	883	1240	1201	1029	1526
8	903	460	313	398	2048	1616	4858	7729	1458	993	2149	1416
9	529	437	303	410	1569	2332	1258	2064	1168	1517	1917	1475
10	507	425	295	479	1697	2214	1440	1663	1023	3224	1330	1466
11	455	413	290	467	1296	1380	2042	2917	955	1509	13011	1261
12	424	407	291	419	1169	990	1084	2060	983	3326	4905	1143
13	405	492	286	362	964	3486	3357	1612	924	2405	2758	2139
14	392	404	278	345	1091	1581	2696	1514	1592	2549	2423	1537
15	403	407	273	336	921	1828	1422	1773	2083	2416	2031	1845
16	407	405	286	321	1127	1132	1219	3683	1319	1681	1679	1346
17	389	405	365	312	1055	866	1160	2298	1031	1799	1950	1117
18	374	456	323	328	1419	776	1572	1729	1088	1610	1939	1057
19	416	424	288	353	1293	984	1184	1637	1018	1168	2007	968
20	407	381	273	379	852	3361	1084	1469	1090	1013	1987	905
21	371	369	283	845	772	2376	1117	1379	1036	925	3707	852
22	345	364	279	359	817	1818	1006	1219	883	917	20245	865
23	336	360	1497	471	825	1761	875	1704	832	834	8155	837
24	340	354	2521	6377	724	2360	931	1370	815	968	5952	1836
25	336	380	1415	3262	662	1534	806	1958	1094	1821	3899	1109
26	337	417	642	3204	792	1455	7098	3278	824	1253	3135	837
27	351	470	656	1759	3872	1183	2516	2324	795	982	2623	852
28	594	541	7745	1359	1107	1060	1678	1529	763	1570	2540	842
29	410		2035	977	2072	1001	1524	1339	982	1532	2888	730
30	486		1046	824	1198	968	1228	1410	963	976	2313	714
31	439		806		859		1296	1288		1049		706

Caudales extremos

	Máximos	Instantáneos	5	N	Mínimos Diari	os	(Caudales	Promedios		Escorr	entía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	8	272.35	1739	25	270.18	336		440	2.75		27037	3.2
Feb	5	272.23	1629	24	270.23	354		459	2.87		25496	3.0
Mar	28	285.89	28404	20	269.97	273		819	5.12		50370	5.9
Abr	24	286.47	29981	17	270.72	312		946	5.91		56293	6.6
May	6	290.86	42350	25	271.41	662		1512	9.45		92981	10.9
Jun	20	282.38	19685	3	271.43	675		1490	9.31		88680	10.4
Jul	26	284.62	25084	7	271.34	795		1653	10.3		101646	11.9
Ago	8	288.97	37211	7	271.47	883		1916	12.0		117831	13.8
Sep	15	276.13	6518	28	271.29	763		1134	7.09		67493	7.9
Oct	12	283.36	21975	2	271.24	728		1489	9.30		91542	10.7
Nov	22	294.90	53644	5	271.32	784		3406	21.3		202687	23.8
Dic	13	278.97	12068	31	270.83	706		1354	8.46		83249	9.8
Anual	22	294.90	53644	20	269.97	273	Promedio	1385	8.66	Total	1005307	117.8

ESTACIÓN CHICO EN EL RÍO CHAGRES Caudales promedios diarios en m³/s

Sensor 5311 Latitud 9° 15' 49" N Longitud 79° 30' 35" O Año: 2006

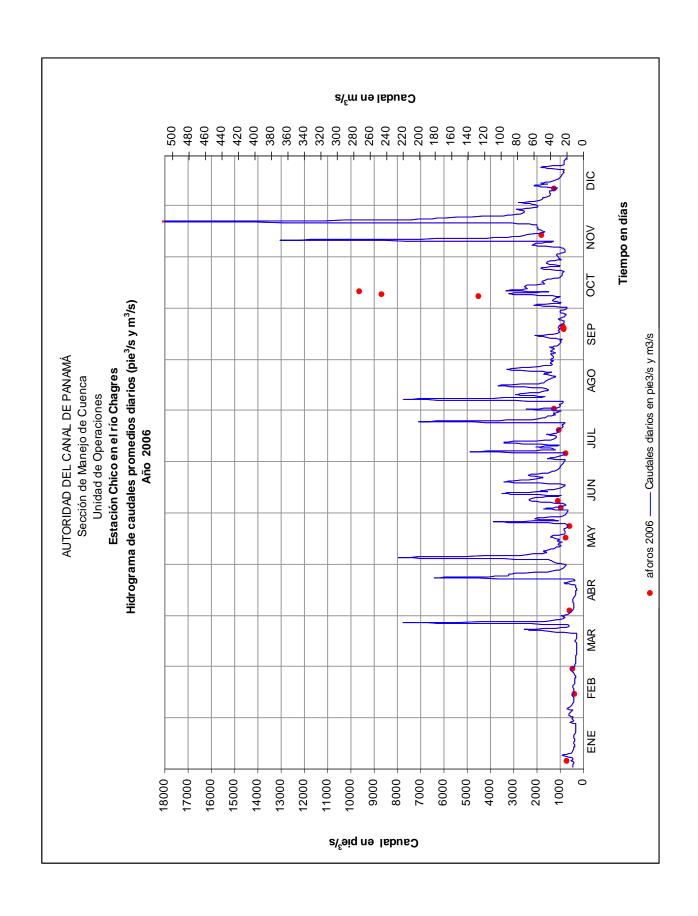
Area de drenaje:414 km²

Elevación: 104 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	13.3	18.3	14.5	26.6	21.0	21.3	24.8	28.8	39.6	21.4	30.3	55.6
2	13.1	17.5	10.7	19.9	20.7	20.5	23.0	69.5	36.1	20.6	33.2	60.7
3	12.8	15.1	10.2	16.7	35.8	19.1	23.0	33.3	37.6	59.8	26.0	79.6
4	12.3	13.4	9.58	14.3	39.1	48.5	43.1	27.7	40.7	29.3	23.0	60.2
5	14.9	20.5	9.68	12.6	42.5	31.9	32.3	29.5	34.1	27.2	22.2	50.7
6	12.5	17.1	10.0	12.1	225	21.0	23.7	25.7	40.5	37.5	24.5	49.6
7	13.8	13.8	9.25	12.0	87.9	26.0	22.5	25.0	35.1	34.0	29.1	43.2
8	25.6	13.0	8.86	11.3	58.0	45.8	138	219	41.3	28.1	60.9	40.1
9	15.0	12.4	8.58	11.6	44.4	66.1	35.6	58.5	33.1	43.0	54.3	41.8
10	14.4	12.0	8.36	13.6	48.1	62.7	40.8	47.1	29.0	91.3	37.7	41.5
11	12.9	11.7	8.21	13.2	36.7	39.1	57.8	82.6	27.0	42.7	368	35.7
12	12.0	11.5	8.24	11.9	33.1	28.0	30.7	58.3	27.8	94.2	139	32.4
13	11.5	13.9	8.10	10.2	27.3	98.7	95.1	45.7	26.2	68.1	78.1	60.6
14	11.1	11.4	7.87	9.78	30.9	44.8	76.3	42.9	45.1	72.2	68.6	43.5
15	11.4	11.5	7.74	9.52	26.1	51.8	40.3	50.2	59.0	68.4	57.5	52.3
16	11.5	11.5	8.11	9.10	31.9	32.1	34.5	104	37.4	47.6	47.5	38.1
17	11.0	11.5	10.3	8.83	29.9	24.5	32.8	65.1	29.2	50.9	55.2	31.6
18	10.6	12.9	9.14	9.28	40.2	22.0	44.5	49.0	30.8	45.6	54.9	29.9
19	11.8	12.0	8.16	10.0	36.6	27.9	33.5	46.4	28.8	33.1	56.8	27.4
20	11.5	10.8	7.72	10.7	24.1	95.2	30.7	41.6	30.9	28.7	56.3	25.6
21	10.5	10.5	8.00	23.9	21.9	67.3	31.6	39.0	29.3	26.2	105	24.1
22	9.78	10.3	7.91	10.2	23.1	51.5	28.5	34.5	25.0	26.0	573	24.5
23	9.51	10.2	42.4	13.3	23.4	49.9	24.8	48.3	23.6	23.6	231	23.7
24	9.62	10.0	71.4	181	20.5	66.8	26.4	38.8	23.1	27.4	169	52.0
25	9.50	10.8	40.1	92.4	18.7	43.4	22.8	55.4	31.0	51.6	110	31.4
26	9.55	11.8	18.2	90.7	22.4	41.2	201	92.8	23.3	35.5	88.8	23.7
27	10.0	13.3	18.6	49.8	110	33.5	71.3	65.8	22.5	27.8	74.3	24.1
28	16.8	15.3	219	38.5	31.3	30.0	47.5	43.3	21.6	44.5	71.9	23.9
29	11.6		57.6	27.7	58.7	28.3	43.2	37.9	27.8	43.4	81.8	20.7
30	13.8		29.6	23.3	33.9	27.4	34.8	39.9	27.3	27.6	65.5	20.2
31	12.4		22.8		24.3		36.7	36.5		29.7		20.0

<u> </u>			
Cauda	22	Aytre	mne

	Máximos	instantáneos	3	N	Mínimos diari	os		Caudales	promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		m	m ³ /s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	8	83.01	49.3	25	82.35	9.50		12.5	30.1		33.4	80.6
Feb	5	82.98	46.1	24	82.37	10.0		13.0	31.4		31.5	76.0
Mar	28	87.14	804	20	82.29	7.72		23.2	56.0		62.1	150
Abr	24	87.32	849	17	82.52	8.83		26.8	64.7		69.4	168
May	6	88.65	1199	25	82.73	18.7		42.8	103		115	277
Jun	20	86.07	557	3	82.73	19.1		42.2	102		109	264
Jul	26	86.75	710	7	82.70	22.5		46.8	113		125	303
Ago	8	88.08	1054	7	82.74	25.0		54.3	131		145	351
Sep	15	84.16	185	28	82.69	21.6		32.1	77.6		83.3	201
Oct	12	86.37	622	2	82.67	20.6		42.2	102		113	273
Nov	22	89.89	1519	5	82.70	22.2		96.5	233		250	604
Dic	13	85.03	342	31	82.55	20.0		38.3	92.6		103	248
Anual	22	89.89	1519	20	82.29	7.72	Promedio	39.2	94.7	Total	1240	2996



ESTACIÓN CHICO EN EL RÍO CHAGRES

Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD 9	9º 15' 49"	N	LONGITU	D 79º 30'	35" O	Año:	2006	A	Área de D	renaje:	414 kı	m²	
DIA		IERO		RERO		ARZO		BRIL		AYO		JUNIO	
1	mg/l 2.3	t/d 2.65	mg/l 3.0	t/d 4.70	mg/l 2.6	t/d 3.22	mg/l 5.5	t/d 12.7	mg/l 3.3	t/d 5.99	mg/l 3.3	t/d 6.15	
2	2.3	2.57	2.9	4.33	1.9	1.77	3.2	5.49	3.3	5.88	3.3	5.77	
3 4	2.2 2.2	2.48 2.28	2.6 2.3	3.33 2.67	1.8 1.8	1.62 1.46	2.8 2.4	3.98 3.03	38.7 10.3	120 34.7	3.1 59.1	5.08 247	
5	2.2	3.31	2.3 5.4	9.53	1.8	1.49	2.4	2.38	10.3	34.7 39.8	8.2	22.6	
6	2.2	2.35	2.9	4.24	1.8	1.57	2.1	2.21	1385.0	26966	3.5	6.31	
7 8	2.7 5.3	3.26 11.7	2.4 2.3	2.81 2.54	1.7 1.7	1.37 1.27	2.1 2.0	2.20 1.96	76.2 22.0	579 110	5.5 58.7	12.4 232	
9	2.5	3.30	2.2	2.32	1.6	1.20	2.1	2.11	11.8	45.3	44.5	254	
10	2.4	3.03	2.1	2.20	1.6	1.14	2.4	2.80	27.0	112	34.6	188	
11 12	2.2 2.1	2.49 2.20	2.1 2.0	2.09 2.04	1.6 1.6	1.11 1.11	2.3 2.1	2.64 2.16	8.1 6.6	25.6 18.8	9.7 4.8	32.7 11.6	
13	2.0	2.02	2.4	2.94	1.5	1.08	1.9	1.65	4.5	10.6	283.5	2418	
14 15	2.0 2.0	1.91 2.01	2.0 2.0	2.01 2.04	1.5 1.5	1.02 1.00	1.8 1.8	1.52 1.45	7.7 4.2	20.5 9.52	14.7 42.9	56.8 192	
16	2.0	2.04	2.0	2.02	1.5	1.08	1.7	1.33	12.6	34.7	6.4	17.8	
17	2.0	1.88	2.0	2.02	1.9	1.71	1.7	1.26	6.6	17.0	3.8	8.02	
18 19	1.9 2.1	1.75 2.12	2.3 2.1	2.52 2.20	1.7 1.6	1.35 1.09	1.7 1.9	1.38 1.60	46.6 11.8	162 37.5	3.4 7.8	6.52 18.8	
20	2.1	2.05	1.9	1.81	1.5	0.99	2.1	1.93	3.7	7.72	418.1	3438	
21 22	1.9 1.8	1.73 1.51	1.9 1.9	1.71 1.67	1.5 1.5	1.06 1.03	9.9 1.9	20.4 1.63	3.4 5.1	6.47 10.2	29.1 18.7	169 83.3	
23	1.8	1.44	1.9	1.64	76.4	280	5.7	6.56	3.9	7.89	19.0	82.0	
24	1.8	1.47	1.8	1.58	235.9	1455	976.2	15230	3.3	5.77	51.2	295	
25 26	1.8 1.8	1.44 1.45	1.9 2.1	1.80 2.14	14.8 3.0	51.4 4.71	151.4 70.3	1208 551	3.0 4.6	4.89 8.90	11.1 12.1	41.7 43.1	
27	1.8	1.57	2.6	3.04	3.2	5.11	17.8	76.4	545.4	5166	6.6	19.2	
28 29	2.9 2.1	4.28 2.09	2.6	3.48	619.0 25.2	11728 125	8.8 4.7	29.1 11.1	6.4 77.6	17.4 393	5.4 4.8	14.0	
30	2.1	2.09			5.3	13.7	3.6	7.27	8.0	23.3	4.6 4.6	11.8 10.8	
31	2.2	2.39		4	3.6	7.02		47400	3.7	7.88			
Total		79.6		77.4		13700		17198		34014		7950	
DIA		JLIO		OSTO		EMBRE		UBRE		EMBRE		MBRE	
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	
1 2	mg/l 3.8 3.6	t/d 8.21 7.09	mg/l 5.0 57.8	t/d 12.5 347	mg/l 11.3 7.7	t/d 38.7 24.1	mg/l 3.4 3.3	t/d 6.23 5.83	mg/l 7.1 7.2	t/d 18.6 20.5	mg/l 19.2 23.8	t/d 98.3 132	
1 2 3	mg/l 3.8 3.6 3.6	t/d 8.21 7.09 7.12	mg/l 5.0 57.8 6.7	t/d 12.5 347 19.2	mg/l 11.3 7.7 8.5	t/d 38.7 24.1 27.7	mg/l 3.4 3.3 53.4	t/d 6.23 5.83 276	mg/l 7.1 7.2 4.2	t/d 18.6 20.5 9.37	mg/l 19.2 23.8 38.9	t/d 98.3 132 279	
1 2	mg/l 3.8 3.6	t/d 8.21 7.09	mg/l 5.0 57.8	t/d 12.5 347	mg/l 11.3 7.7	t/d 38.7 24.1	mg/l 3.4 3.3	t/d 6.23 5.83	mg/l 7.1 7.2	t/d 18.6 20.5	mg/l 19.2 23.8	t/d 98.3 132	
1 2 3 4 5 6	mg/l 3.8 3.6 3.6 34.0 7.2 3.7	**t/d** 8.21 7.09 7.12 126 20.2 7.54	mg/l 5.0 57.8 6.7 4.6 5.5 4.1	t/d 12.5 347 19.2 11.1 13.9 9.08	mg/l 11.3 7.7 8.5 11.4 6.9 12.5	#d 38.7 24.1 27.7 39.9 20.2 43.9	mg/l 3.4 3.3 53.4 5.5 5.3 23.5	t/d 6.23 5.83 276 14.0 12.4 76.0	mg/l 7.1 7.2 4.2 3.6 3.5 3.8	t/d 18.6 20.5 9.37 7.07 6.64 8.09	mg/l 19.2 23.8 38.9 22.2 16.4 15.7	t/d 98.3 132 279 123 77.0 72.1	
1 2 3 4 5 6 7	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0	t/d 18.6 20.5 9.37 7.07 6.64 8.09 15.0	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3	t/d 98.3 132 279 123 77.0 72.1 49.5	
1 2 3 4 5 6 7 8 9	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4	t/d 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4	### 132	
1 2 3 4 5 6 7 8 9	mg/l 3.8 3.6 3.6 3.7 6.2 216.9 7.6 20.3	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0	t/d 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6	### 132	
1 2 3 4 5 6 7 8 9	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6	t/d 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4	### 132	
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 3.8 3.6 3.6 3.6 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7	12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0	### 1885 #### 1885 #### 1885 ### 1885 ### 1885 ### 1885 ### 1885 ### 1885 ### 1885	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9 1277 301	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0	### 1885 ### 1885	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9 1277 301 32.9 21.1	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0	### 100 36.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 3.8 3.6 3.6 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9 1277 301 32.9 21.1 18.2	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5	12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9	1/d 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1	### 100	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1	t/d 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9 1277 301 32.9 21.1	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0	t/d 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0	### 100 36.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 3.8 3.6 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9	### 8.21 7.09 7.12 126 20.2 7.54 12.2 2578 23.3 71.3 155 14.9 1277 301 32.9 21.1 18.2 74.6 19.8 15.6	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2	12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9	## 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9	### 183	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7	### 15.6 18.21	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0	12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7 30.4	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2	## 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 213.8	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 278.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 3.6	### 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 21.3.8 1577.6 281.1	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.6 4.3	### 198.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mg/l 3.8 3.6 3.6 3.6 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7 29.4	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6 3.6	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 4.2 3.6 5.4	### 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.43 9.53 7.43 12.9	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 213.8 1577.6 281.1 159.2	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 278.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 3.6	### 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 21.3.8 1577.6 281.1	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.6 4.3	### 198.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 3.8 3.6 3.6 3.6 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0 3.6 630.6 36.0	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8 46.2 113.1 28.6	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7 29.4 20.8 81.7 29.4 20.1 907 162	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6 7.3 3.6 3.5	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15 19.4 7.30 6.82	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 4.2 3.6 5.4 36.3 7.6 4.7	### 140 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43 12.9 162 23.4 11.4	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 213.8 1577.6 281.1 159.2 65.1 44.1 32.1	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361 639 351 216	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2 7.7 4.3 4.6	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433 23.0 9.95 10.8	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	mg/l 3.8 3.6 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0 3.6 630.6 36.0 13.7	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8 46.2 113.1 28.6 10.7	## 12.5 ## 347 ## 19.2 ## 11.1 ## 13.9 ## 9.08 ## 8.52 ## 21470 ## 96.8 ## 51.1 ## 724 ## 104 ## 50.2 ## 40.2 ## 724 ## 104 ## 50.2 ## 1797 ## 216 ## 58.2 ## 55.5 ## 30.4 ## 20.8 ## 81.7 ## 29.4 ## 221 ## 907 ## 162 ## 40.1	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6 7.3 3.6 3.6 7.3 3.6 3.6 7.3	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15 19.4 7.30 6.82 6.33	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 3.6 5.4 36.3 7.6 4.7 16.4	## 140 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43 12.9 162 23.4 11.4 62.9	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 213.8 1577.6 281.1 159.2 65.1 44.1 32.1 30.5	18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361 639 351 216 199	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2 7.7 4.3 4.6 4.6	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433 23.0 9.95 10.8 10.6	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 3.8 3.6 3.6 3.6 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0 3.6 630.6 36.0	### 15.6 19.8 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8 46.2 113.1 28.6	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7 29.4 221 907 162 40.1 27.3 34.4	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.9 3.6 7.3 3.6 3.5	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15 19.4 7.30 6.82	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 4.2 3.6 5.4 36.3 7.6 4.7	### 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.43 9.43 9.53 7.43 12.9 162 23.4 11.4 62.9 50.7	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 213.8 1577.6 281.1 159.2 65.1 44.1 32.1	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361 639 351 216	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2 7.7 4.3 4.6	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433 23.0 9.95 10.8 10.6 7.49 7.22	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0 3.6 630.6 36.0 13.7 11.4	### 100 ###	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8 46.2 113.1 28.6 10.7 8.3	## 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 78.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7 29.4 221 907 162 40.1 27.3 34.4 24.5	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.6 3.6 7.3 3.6 3.5 3.4 6.9	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 12.0 9.43 169 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15 19.4 7.30 6.82 6.33 16.6 10.8	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 4.2 3.6 5.4 36.3 7.6 4.7 16.4 13.5	### 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43 12.9 162 23.4 11.4 62.9 50.7 11.0 14.0	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 21.3.8 1577.6 281.1 159.2 65.1 44.1 30.5 70.1	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361 639 351 216 199 516 157	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 14.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2 7.7 4.3 4.6 4.6 3.7	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433 23.0 9.95 10.8 10.6 7.49 7.22 7.11	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 3.8 3.6 3.6 34.0 7.2 3.7 6.2 216.9 7.6 20.3 31.1 5.6 155.5 45.7 9.5 7.1 6.4 19.4 6.8 5.9 6.7 4.9 3.9 5.0 3.6 630.6 36.0 13.7 11.4 7.2	### ### ### ### ### ### ### ### ### ##	mg/l 5.0 57.8 6.7 4.6 5.5 4.1 3.9 1135.4 19.2 12.6 101.4 20.7 12.7 10.9 18.0 199.4 38.5 13.8 13.9 10.2 9.0 7.0 19.6 8.8 46.2 113.1 28.6 10.7 8.3 10.0	t/d 12.5 347 19.2 11.1 13.9 9.08 8.52 21470 96.8 51.1 724 104 50.2 40.2 40.2 1797 216 58.2 55.5 36.7 30.4 20.8 81.7 29.4 221 907 162 40.1 27.3 34.4 24.5 26779	mg/l 11.3 7.7 8.5 11.4 6.9 12.5 7.3 15.3 6.6 5.0 4.4 5.0 4.2 43 58.3 8.8 5.1 6.6 5.1 6.7 5.3 3.6 3.6 7.3 3.6 3.5 3.4 6.9	t/d 38.7 24.1 27.7 39.9 20.2 43.9 22.0 54.7 18.9 12.6 10.3 16.9 297 28.3 12.9 17.7 12.8 17.9 13.3 8.34 7.39 7.15 19.4 7.30 6.82 6.33 16.6 10.8	mg/l 3.4 3.3 53.4 5.5 5.3 23.5 7.1 4.8 34.6 241.2 11.7 508.8 27.1 70.3 29.1 13.0 31.4 14.2 6.5 4.9 4.2 3.6 5.4 36.3 7.6 4.7 16.4 13.5 4.6	## 6.23 5.83 276 14.0 12.4 76.0 20.9 11.6 128 1902 43.1 4140 160 439 172 53.4 138 56.1 18.6 12.3 9.43 9.53 7.43 12.9 162 23.4 11.4 62.9 50.7 11.0 8059	mg/l 7.1 7.2 4.2 3.6 3.5 3.8 6.0 73.4 26.4 9.0 1658.6 135.1 33.7 27.0 18.5 12.7 23.9 18.4 18.5 23.6 21.3.8 1577.6 281.1 159.2 65.1 44.1 30.5 70.1	## 18.6 20.5 9.37 7.07 6.64 8.09 15.0 386 124 29.3 52799 1621 227 160 92.1 52.3 114 87.1 91.0 115 1939 78147 5647 2361 639 351 216 199 516	mg/l 19.2 23.8 38.9 22.2 16.4 15.7 12.3 10.8 12.4 11.6 8.8 7.4 149.0 20.8 10.0 7.1 6.4 5.5 4.9 4.4 4.6 4.3 91.2 7.7 4.3 4.6 3.7 3.6 3.6	## 98.3 132 279 123 77.0 72.1 49.5 40.4 48.5 45.1 29.5 22.6 818 56.7 100 36.0 21.2 18.3 14.5 12.1 10.4 10.9 9.95 433 23.0 9.95 10.8 10.6 7.49 7.22	

Concentración de Sedimentos Suspendidos (mg/l)

Mínimo Diario:1.5Promedio Anual:219.5Máximo Diario:1658.6Máxima Instantánea:4045.1

Estación Río Piedras en el Río Piedras





LOCALIZACIÓN: La estación está a 6.2 km (3.8 mi) aguas arriba de la confluencia con el río Chagres, en la provincia de Panamá, distrito de Panamá. Sus coordenadas geográficas son: 9° 16' 55" de latitud Norte y a 79° 23' 53" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-02-01

ÁREA DE DRENAJE: 81.0 km² (31.3 mi²)

PERIODO DE REGISTRO: Desde enero de 1973 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

	Elevación máxima Caudinstantánea ins				Elevacio	ón mínima	a diaria	Cau míni dia	mo	Cau prom anı	edio
día/mes	día/mes pie m pie ³ /s m ³ /s					pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
12/oct. 648.22 197.58 12122 343				343	22/mar.	635.86	193.81	42.5	1.20	208	5.89

Nota: En esta estación no se toman muestras de sedimentos suspendidos.

ESTACIÓN RÍO PIEDRAS EN EL RÍO PIEDRAS Caudales promedios diarios en pie³/s

Sensor 6611 Latitud 9° 16' 55" N Longitud 79° 23' 53" O Año: 2006

Área de drenaje: 31.3 mi²

Elevación: 630 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	104	96.3	58.0	82.0	78.5	138	159	150	274	158	193	343
2	95.1	74.1	54.4	71.9	76.5	136	154	199	232	153	187	344
3	91.3	69.0	53.0	66.7	94.5	127	161	154	223	533	162	375
4	90.8	66.7	51.7	63.8	104	255	335	141	214	213	154	330
5	90.7	81.5	51.0	61.7	117	167	196	149	196	228	157	289
6	88.7	73.4	51.8	60.3	712	197	164	135	217	379	160	286
7	96.5	66.1	51.5	60.3	362	200	156	131	219	272	279	257
8	103	63.4	51.0	57.9	192	475	547	397	269	255	410	247
9	87.7	63.0	50.7	63.5	142	463	208	175	206	259	411	323
10	86.5	62.1	49.8	87.4	123	442	238	156	202	585	240	295
11	83.5	61.5	48.6	66.1	114	277	290	371	184	208	1250	237
12	81.2	60.7	48.3	59.1	107	232	199	194	217	1347	657	217
13	79.8	60.1	46.7	55.2	101	606	538	154	180	488	393	319
14	78.6	60.1	45.7	53.5	97.3	284	354	142	187	699	397	236
15	78.4	60.4	44.8	52.9	92.8	476	246	162	563	468	352	226
16	77.8	59.1	45.4	51.5	91.5	280	230	238	249	234	283	206
17	78.2	57.9	51.0	50.1	96.5	239	227	413	215	410	267	201
18	78.5	59.0	45.6	51.6	255	219	287	279	202	432	238	187
19	79.0	57.1	43.9	51.7	136	214	235	247	191	296	221	181
20	75.1	54.6	43.2	72.5	105	233	226	243	246	253	424	173
21	72.3	54.2	43.1	64.3	97.1	385	276	219	202	229	591	165
22	72.3	53.4	42.5	53.6	150	266	217	204	184	218	1897	159
23	72.8	52.9	141	53.9	121	319	206	250	177	202	1118	160
24	71.9	52.8	112	628	99.1	217	200	209	175	200	864	156
25	71.1	56.7	92.1	349	95.7	406	194	350	184	284	683	154
26	71.2	57.6	61.9	200	94.3	200	491	671	168	216	582	151
27	74.1	57.9	122	163	396	180	232	326	163	189	494	159
28	85.3	60.8	674	124	143	175	187	233	161	208	449	148
29	76.7		151	96.6	375	173	182	211	160	215	447	141
30	72.4		97.2	84.5	180	166	168	258	173	181	387	140
31	71.0		81.7		158		158	205		171		136

Caudales extremos

		Cauc	Jaies exilei	1105								
	Máximos	Instantáneos	6	ľ	Mínimos Diari	os		Caudales	Promedios		Escor	rentía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Men pie ³ /s	suales pie ³ /s/mi ²		Acre-pie	plg
Ene	1	636.56	123	31	636.16	71.0		81.8	2.61		5030	3.0
Feb	1	636.66	139	24	635.98	52.8		62.6	2.00		3476	2.1
Mar	28	642.02	3261	22	635.86	42.5		84.0	2.68		5164	3.1
Abr	24	643.00	4356	17	635.95	50.1		102	3.25		6062	3.6
May	6	641.54	2821	2	636.21	76.5		165	5.26		10130	6.1
Jun	13	643.79	5322	3	636.58	127		272	8.68		16158	9.7
Jul	26	642.40	3677	2	636.75	154		247	7.89		15190	9.1
Ago	26	642.11	3366	7	637.08	131		238	7.59		14612	8.8
Sep	15	643.40	4835	29	637.22	160		214	6.85		12761	7.6
Oct	12	648.22	12122	2	636.55	153		329	10.5		20199	12.1
Nov	22	645.36	7976	4	636.48	154		478	15.3		28460	17.0
Dic	13	638.79	1418	31	636.40	136		224	7.15		13769	8.2
Anual	12	648.22	12122	22	635.86	42.5	Promedio	208	6.65	Total	151012	90.5

Nota: el 17 de octubre de 2006 se cambió el sitio de la estación.

ESTACIÓN RÍO PIEDRAS EN EL RÍO PIEDRAS Caudales promedios diarios en m³/s

Sensor 6611 Latitud 9° 16' 55" N Longitud 79° 23' 53" O Año: 2006

Área de drenaje: 81.0 km²

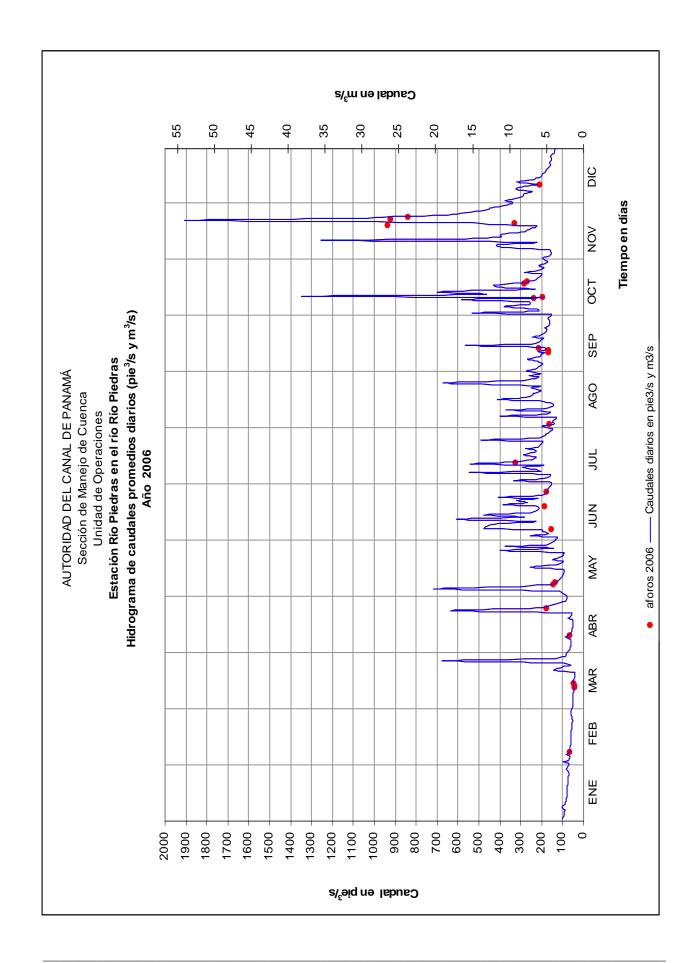
Elevación: 192 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	2.94	2.73	1.64	2.32	2.22	3.92	4.49	4.25	7.76	4.46	5.47	9.71
2	2.69	2.10	1.54	2.04	2.17	3.84	4.35	5.64	6.57	4.32	5.30	9.75
3	2.58	1.95	1.50	1.89	2.68	3.59	4.56	4.36	6.32	15.1	4.58	10.6
4	2.57	1.89	1.46	1.81	2.95	7.22	9.48	3.99	6.05	6.04	4.37	9.34
5	2.57	2.31	1.44	1.75	3.31	4.74	5.54	4.21	5.54	6.47	4.44	8.20
6	2.51	2.08	1.47	1.71	20.2	5.57	4.63	3.82	6.14	10.7	4.53	8.11
7	2.73	1.87	1.46	1.71	10.3	5.66	4.42	3.70	6.21	7.71	7.91	7.28
8	2.93	1.79	1.44	1.64	5.45	13.5	15.5	11.3	7.63	7.21	11.6	7.00
9	2.48	1.78	1.44	1.80	4.01	13.1	5.89	4.95	5.85	7.33	11.6	9.16
10	2.45	1.76	1.41	2.48	3.49	12.5	6.73	4.42	5.73	16.6	6.80	8.37
11	2.36	1.74	1.38	1.87	3.23	7.85	8.20	10.5	5.20	5.89	35.4	6.71
12	2.30	1.72	1.37	1.67	3.03	6.57	5.63	5.51	6.14	38.1	18.6	6.16
13	2.26	1.70	1.32	1.56	2.85	17.2	15.2	4.35	5.09	13.8	11.1	9.02
14	2.23	1.70	1.30	1.51	2.75	8.04	10.0	4.02	5.29	19.8	11.3	6.69
15	2.22	1.71	1.27	1.50	2.63	13.5	6.96	4.59	15.9	13.3	9.97	6.41
16	2.20	1.67	1.28	1.46	2.59	7.92	6.51	6.75	7.04	6.62	8.03	5.82
17	2.21	1.64	1.45	1.42	2.73	6.76	6.42	11.7	6.09	11.6	7.56	5.69
18	2.22	1.67	1.29	1.46	7.22	6.20	8.13	7.90	5.73	12.2	6.75	5.30
19	2.24	1.62	1.24	1.46	3.86	6.05	6.66	7.00	5.41	8.37	6.25	5.14
20	2.13	1.55	1.22	2.05	2.97	6.60	6.41	6.88	6.98	7.17	12.0	4.89
21	2.05	1.53	1.22	1.82	2.75	10.9	7.81	6.21	5.72	6.48	16.7	4.66
22	2.05	1.51	1.20	1.52	4.25	7.54	6.14	5.79	5.22	6.19	53.7	4.49
23	2.06	1.50	3.99	1.53	3.42	9.03	5.85	7.08	5.00	5.72	31.7	4.54
24	2.04	1.50	3.16	17.8	2.81	6.15	5.66	5.93	4.97	5.67	24.5	4.42
25	2.01	1.61	2.61	9.88	2.71	11.5	5.49	9.91	5.20	8.05	19.3	4.37
26	2.02	1.63	1.75	5.65	2.67	5.65	13.9	19.0	4.8	6.11	16.5	4.27
27	2.10	1.64	3.46	4.63	11.2	5.10	6.58	9.22	4.63	5.37	14.0	4.50
28	2.42	1.72	19.1	3.51	4.05	4.94	5.29	6.60	4.57	5.90	12.7	4.20
29	2.17		4.28	2.73	10.6	4.91	5.16	5.97	4.52	6.08	12.7	3.99
30	2.05		2.75	2.39	5.10	4.69	4.76	7.30	4.89	5.13	11.0	3.96
31	2.01		2.31		4.47		4.48	5.80		4.85		3.85

Cauda	ales	extra	20ma

	NAV:											
	Máximos	instantáneos	3		Mínimos diario	os		Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m³/s		m	m³/s		m³/s	l/s/km²		MMC	mm
Ene	1	194.02	3.48	31	193.90	2.01		2.32	28.6		6.20	76.3
Feb	1	194.05	3.93	24	193.85	1.50		1.77	21.9		4.29	52.7
Mar	28	195.69	92.4	22	193.81	1.20		2.38	29.4		6.37	78.4
Abr	24	195.99	123	17	193.84	1.42		2.89	35.6		7.48	92.0
May	6	195.54	79.9	2	193.92	2.17		4.67	57.6		12.5	154
Jun	13	196.23	151	3	194.03	3.59		7.69	94.9		19.9	245
Jul	26	195.80	104	2	194.08	4.35		7.00	86.4		18.7	230
Ago	26	195.72	95.3	7	194.18	3.70		6.73	83.1		18.0	222
Sep	15	196.11	137	29	194.22	4.52		6.07	75.0		15.7	194
Oct	12	197.58	343	2	194.02	4.32		9.30	115		24.9	307
Nov	22	196.71	226	4	194.00	4.37		13.5	167		35.1	432
Dic	13	194.70	40.2	31	193.97	3.85		6.34	78.3		17.0	209
Anual	12	197.58	343	22	193.81	1.20	Promedio	5.89	72.7	Total	186	2291

Nota: el 17 de octubre de 2006 se cambió el sitio de la estación.



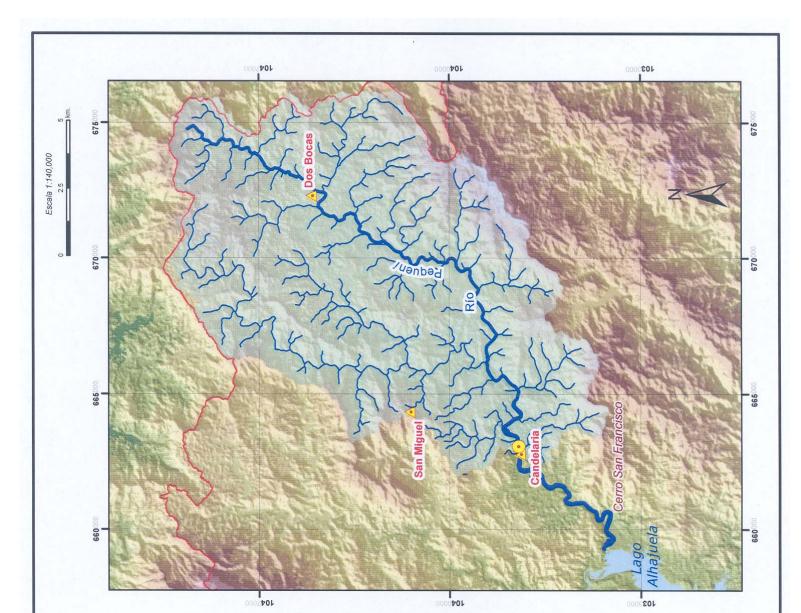
Subcuenca del río Pequení

(hasta la estación Candelaria)

Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIONES







Estación Candelaria en el Río Pequení





LOCALIZACIÓN: La estación está a 600 m (0.4 mi) aguas arriba de la confluencia del río Pequení con la quebrada Candelaria, en la provincia de Panamá, distrito de Panamá, cerca del poblado de San Juan de Pequení Rural, frente a la escuela San Juan de Pequení Indígena. Sus coordenadas geográficas son: 9° 22' 58" de latitud Norte y 79° 30' 59" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-07-01

ÁREA DE DRENAJE: 135 km² (52 mi²)

PERIODO DE REGISTRO: Desde septiembre de 1933 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal i		Elevació	on mínima	ı diaria	Cau mín dia	imo	Caudal promedio anual	
día/mes	día/mes pie m pie³/s m³/s				día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
7/jul. 287.19 87.54 33557			950	15/mar.	267.14	81.42	77.5	2.20	510	14.4	

CAUDAL SÓLIDO:

Cor	ncentración (mg/l)		Rendimiento líquido	Producció sedim	n anual de ientos
Máxima Instantánea	Mínima diaria	Promedio anual	(l/s/km2)	t/año	t/año/km ²
2126.1	1.5	187.1	107	85168	631

ESTACIÓN CANDELARIA EN EL RÍO PEQUENÍ Caudales promedios diarios en pie³/s

Sensor 5111 Latitud 09° 22' 58" N Longitud 79° 30' 59"O Año: 2006

Area de drenaje: 52 mi² Elevación: 320 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	199	251	136	242	244	446	302	468	566	305	487	571
2	200	205	112	218	246	407	284	767	406	295	728	565
3	190	178	106	179	560	465	313	484	376	1141	415	797
4	180	163	104	162	448	780	498	433	414	471	380	566
5	185	241	104	153	400	390	346	533	353	370	344	491
6	173	194	105	147	2051	335	275	491	355	343	584	510
7	237	164	98.1	144	932	306	2769	481	354	407	427	482
8	256	154	93.8	141	783	348	3809	1161	526	355	599	868
9	198	148	89.5	138	751	567	811	568	356	434	544	492
10	193	144	86.5	135	744	584	664	496	315	1300	412	504
11	177	139	86.0	132	557	439	793	2030	290	476	3675	462
12	166	140	85.0	126	511	335	637	726	280	567	1039	413
13	159	140	82.3	118	419	1645	814	555	289	435	1346	474
14	157	136	79.9	112	471	534	850	493	394	413	828	424
15	158	147	77.5	112	392	458	597	598	458	419	607	1441
16	157	140	83.9	106	446	362	571	1459	360	342	524	556
17	147	131	129	99.5	352	340	552	744	295	383	571	456
18	148	142	97.0	101	404	311	533	744	821	335	481	431
19	151	128	85.1	98.4	367	316	452	644	399	289	450	394
20	169	119	79.1	112	308	1615	422	602	410	271	479	367
21	147	120	83.1	229	285	807	399	503	378	259	1754	345
22	138	116	84.4	134	313	525	395	453	292	261	5368	356
23	134	115	171	116	365	432	391	917	284	245	2264	369
24	139	111	373	2694	305	508	398	983	389	443	2028	414
25	167	119	247	662	264	397	388	1136	600	496	1158	357
26	183	142	161	1522	575	362	6398	767	316	616	870	316
27	257	116	152	624	4812	333	1286	621	287	383	765	370
28	356	143	1163	507	939	506	843	512	261	1545	1036	395
29	230		444	332	1114	356	723	459	619	723	697	326
30	243		261	277	645	331	581	469	360	1067	569	313
31	226		217		512		515	425		632		294

Caudales extremos

	Caddales extremos											
	Máximos Instantáneos			N	Vinimos Diario	os		Caudale	s Promedios		Escon	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Me	nsuales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	7	268.20	501	23	267.36	134		188	3.61		11543	4.2
Feb	5	268.14	467	24	267.27	111		150	2.88		8305	3.0
Mar	28	271.18	3115	15	267.14	77.5		170	3.27		10467	3.8
Abr	24	278.45	14466	19	267.23	98.4		329	6.33		19585	7.1
May	27	283.89	25922	1	267.67	244		694	13.3		42677	15.4
Jun	20	275.19	8691	7	267.91	306		518	9.96		30826	11.1
Jul	7	287.19	33557	6	267.84	275		923	17.7		56745	20.5
Ago	11	273.81	6540	31	268.18	425		701	13.5		43084	15.5
Sep	18	272.67	4915	28	267.81	261		393	7.56		23407	8.4
Oct	28	274.57	7701	23	267.76	245		517	9.94		31775	11.5
Nov	11	282.23	22209	5	268.00	344		1048	20.1		62342	22.5
Dic	15	272.69	4942	31	267.89	294		488	9.38		29986	10.8
Anual	7	287.19	33557	15	267.14	77.5	Promedio	510	9.80	Total	370741	133.7

ESTACIÓN CANDELARIA EN EL RÍO PEQUENÍ Caudales promedios diarios en m³/s

Sensor 5111 Latitud 09° 22' 58" N Longitud 79° 30' 59"O Año: 2006

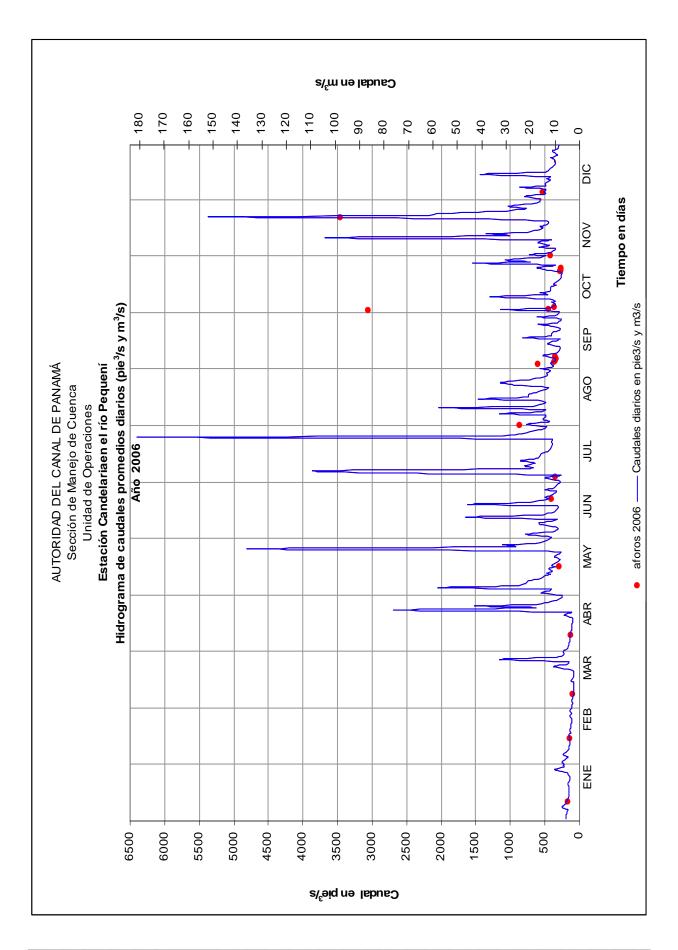
Area de drenaje: 135 km²

Elevación: 97.5 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ост	NOV	DIC
1	5.63	7.10	3.85	6.85	6.92	12.6	8.55	13.2	16.0	8.65	13.8	16.2
2	5.67	5.81	3.18	6.16	6.96	11.5	8.04	21.7	11.5	8.36	20.6	16.0
3	5.39	5.03	3.01	5.06	15.8	13.2	8.86	13.7	10.7	32.3	11.8	22.6
4	5.09	4.62	2.95	4.60	12.7	22.1	14.1	12.3	11.7	13.3	10.8	16.0
5	5.25	6.84	2.94	4.34	11.3	11.0	9.79	15.1	10.0	10.5	9.75	13.9
6	4.89	5.51	2.97	4.16	58.1	9.49	7.78	13.9	10.1	9.70	16.5	14.5
7	6.71	4.65	2.78	4.09	26.4	8.67	78.4	13.6	10.0	11.5	12.1	13.7
8	7.24	4.37	2.66	4.00	22.2	9.85	108	32.9	14.9	10.0	17.0	24.6
9	5.62	4.19	2.53	3.91	21.3	16.1	23.0	16.1	10.1	12.3	15.4	13.9
10	5.48	4.09	2.45	3.83	21.1	16.5	18.8	14.0	8.92	36.8	11.7	14.3
11	5.02	3.94	2.43	3.74	15.8	12.4	22.5	57.5	8.21	13.5	104	13.1
12	4.70	3.96	2.41	3.58	14.5	9.50	18.0	20.6	7.92	16.0	29.4	11.7
13	4.51	3.95	2.33	3.35	11.9	46.6	23.0	15.7	8.18	12.3	38.1	13.4
14	4.44	3.85	2.26	3.16	13.3	15.1	24.1	13.9	11.2	11.7	23.5	12.0
15	4.49	4.17	2.20	3.17	11.1	13.0	16.9	16.9	13.0	11.9	17.2	40.8
16	4.45	3.97	2.38	3.00	12.6	10.3	16.2	41.3	10.2	9.68	14.9	15.7
17	4.16	3.72	3.65	2.82	10.0	9.64	15.6	21.1	8.34	10.8	16.2	12.9
18	4.18	4.03	2.75	2.85	11.5	8.81	15.1	21.1	23.3	9.48	13.6	12.2
19	4.26	3.63	2.41	2.79	10.4	8.96	12.8	18.2	11.3	8.19	12.8	11.2
20	4.79	3.37	2.24	3.18	8.71	45.7	12.0	17.1	11.6	7.68	13.6	10.4
21	4.16	3.40	2.35	6.50	8.08	22.8	11.3	14.2	10.7	7.34	49.7	9.78
22	3.91	3.28	2.39	3.79	8.86	14.9	11.2	12.8	8.27	7.39	152	10.1
23	3.81	3.24	4.85	3.28	10.3	12.2	11.1	26.0	8.04	6.94	64.1	10.5
24	3.94	3.14	10.6	76.3	8.64	14.4	11.3	27.8	11.0	12.6	57.4	11.7
25	4.73	3.37	6.99	18.7	7.47	11.3	11.0	32.2	17.0	14.1	32.8	10.1
26	5.17	4.02	4.57	43.1	16.3	10.2	181	21.7	8.94	17.4	24.6	8.94
27	7.27	3.29	4.29	17.7	136	9.44	36.4	17.6	8.12	10.8	21.7	10.5
28	10.1	4.05	32.9	14.4	26.6	14.3	23.9	14.5	7.40	43.7	29.3	11.2
29	6.51		12.6	9.40	31.6	10.1	20.5	13.0	17.5	20.5	19.7	9.24
30	6.87		7.38	7.85	18.3	9.38	16.5	13.3	10.2	30.2	16.1	8.87
31	6.41		6.15		14.5		14.6	12.0		17.9		8.32

Caudales extremos

		Out	addioo omilo	11100								
	Máximos	instantáneos	;		Mínimos diario	os	(Caudales	promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m³/s		m ³ /s	l/s/km ²		MMC	mm
Ene	7	81.75	14.2	23	81.49	3.81		5.32	39.4		14.2	105
Feb	5	81.73	13.2	24	81.47	3.14		4.24	31.4		10.2	75.9
Mar	28	82.66	88.2	15	81.42	2.20		4.82	35.7		12.9	95.6
Abr	24	84.87	410	19	81.45	2.79		9.32	69.0		24.2	179
May	27	86.53	734	1	81.59	6.92		19.7	146		52.6	390
Jun	20	83.88	246	7	81.66	8.67		14.7	109		38.0	282
Jul	7	87.54	950	6	81.64	7.78		26.1	194		70.0	519
Ago	11	83.46	185	31	81.74	12.0		19.8	147		53.2	394
Sep	18	83.11	139	28	81.63	7.40		11.1	82.5		28.9	214
Oct	28	83.69	218	23	81.61	6.94		14.6	108		39.2	290
Nov	11	86.02	629	5	81.69	9.75		29.7	220		76.9	570
Dic	15	83.12	140	31	81.65	8.32		13.8	102		37.0	274
Anual	7	87.54	950	15	81.42	2.20	Promedio	14.4	107	Total	457	3388



ESTACIÓN CANDELARIA EN EL RÍO PEQUENÍ

Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD 9º 22' 58" N		N I	LONGITUD 79º 30' 59" O			Año:	2006 Á		rea de Drenaje:		135 km²	
DIA	ENERO		FEBRERO		MARZO		ABRIL		MAYO		JUNIO	
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1	2.0	0.951	2.1	1.28	1.8	0.590	2.1	1.22	2.1	1.24	4.0	4.38
2 3	2.0 1.9	0.960 0.900	2.0	0.992 0.825	1.7 1.7	0.462 0.432	2.0 1.9	1.07 0.832	2.1 42.3	1.25 57.9	3.4 5.8	3.38
4	1.9	0.838	1.9 1.9	0.625	1.7	0.432	1.9	0.632	42.3	4.75	62.6	6.61 119
5	1.9	0.872	2.5	1.48	1.6	0.419	1.8	0.685	3.4	3.34	3.2	3.03
6	1.9	0.795	1.9	0.927	1.7	0.423	1.8	0.650	523.8	2629	2.4	1.96
7	2.7	1.58	1.9	0.748	1.6	0.390	1.8	0.635	21.8	49.7	2.2	1.64
8	2.1	1.33	1.8	0.691	1.6	0.368	1.8	0.618	20.5	39.2	3.2	2.76
9	2.0	0.949	1.8	0.655	1.6	0.347	1.8	0.601	13.1	24.1	26.5	36.8
10 11	1.9 1.9	0.919 0.823	1.8 1.8	0.635 0.607	1.6 1.6	0.332 0.330	1.8 1.8	0.584 0.568	15.0 6.1	27.4 8.34	17.4 4.8	24.8 5.17
12	1.9	0.023	1.8	0.610	1.6	0.335	1.7	0.537	5.2	6.55	2.5	2.02
13	1.8	0.719	1.8	0.608	1.5	0.312	1.7	0.494	3.6	3.69	330.6	1331
14	1.8	0.705	1.8	0.589	1.5	0.300	1.7	0.459	5.2	6.03	6.4	8.37
15	1.8	0.714	1.8	0.651	1.5	0.289	1.7	0.460	3.2	3.06	4.8	5.39
16	1.8	0.708	1.8	0.612	1.6	0.320	1.7	0.429	5.1	5.54	2.8	2.44
17	1.8	0.649	1.8	0.562	1.8	0.552	1.6	0.397	2.6	2.24	2.5	2.05
18 19	1.8 1.8	0.653 0.670	1.8 1.7	0.623 0.545	1.6 1.6	0.384 0.325	1.6 1.6	0.403 0.391	4.3 3.1	4.29 2.75	2.2 2.2	1.68 1.73
20	1.0	0.076	1.7	0.343	1.5	0.325	1.7	0.391	2.2	1.66	313.4	1239
21	1.8	0.649	1.7	0.504	1.6	0.316	2.9	1.62	2.2	1.50	21.2	41.8
22	1.8	0.601	1.7	0.480	1.6	0.322	1.8	0.577	2.9	2.25	5.7	7.32
23	1.8	0.581	1.7	0.474	2.6	1.08	1.7	0.480	4.3	3.80	3.8	4.06
24	1.8	0.606	1.7	0.454	8.9	8.15	834.6	5501	2.3	1.72	6.4	7.98
25 26	1.9 1.9	0.768 0.859	1.7	0.496 0.624	2.2 1.9	1.33	14.0 128.4	22.6	2.1 14.1	1.36 19.9	3.3 2.7	3.18 2.43
26 27	2.2	1.40	1.8 1.7	0.624	1.8	0.732 0.676	120.4	478 18.8	1060.0	12478	2.7	2.43 1.91
28	2.8	2.45	1.8	0.629	51.4	146	5.7	7.02	17.0	39.0	9.6	11.9
29	2.0	1.14			5.1	5.56	2.4	1.98	49.5	135	2.7	2.32
30	2.1	1.23			2.1	1.34	2.1	1.45	8.1	12.8	2.3	1.90
31	2.0	1.12		40.0	2.0	1.06		00.10	5.2	6.52		
Total		28.7		19.0		174		6046		15584		2888
DÍA	JULIO		AGOSTO	5	SEPTIEM		OCTUBRE		NOVIEMB		DICIEMBR	E
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1	mg/l 2.2	t/d 1.61	mg/l 4.4	t/d 5.01	mg/l 10.7	t/d 14.8	mg/l 2.2	t/d 1.64	mg/l 5.0	t/d 5.92	mg/l 6.7	t/d 9.32
1 2	mg/l 2.2 2.2	t/d 1.61 1.49	mg/l 4.4 16.8	t/d 5.01 31.5	mg/l 10.7 3.4	t/d 14.8 3.35	mg/l 2.2 2.2	t/d 1.64 1.60	mg/l 5.0 49.6	t/d 5.92 88.4	mg/l 6.7 6.5	t/d 9.32 8.98
1 2 3	mg/l 2.2 2.2 2.5	t/d 1.61 1.49 1.92	mg/l 4.4 16.8 4.7	t/d 5.01 31.5 5.54	mg/l 10.7 3.4 2.9	t/d 14.8 3.35 2.70	mg/l 2.2 2.2 111.0	t/d 1.64 1.60 310	mg/l 5.0 49.6 3.6	t/d 5.92 88.4 3.61	mg/l 6.7 6.5 14.1	t/d 9.32 8.98 27.5
1 2 3 4	mg/l 2.2 2.2	t/d 1.61 1.49 1.92 19.0	mg/l 4.4 16.8 4.7 3.8	t/d 5.01 31.5 5.54 4.02	mg/l 10.7 3.4 2.9 3.8	t/d 14.8 3.35 2.70 3.89	mg/l 2.2 2.2 111.0 5.1	t/d 1.64 1.60 310 5.86	mg/l 5.0 49.6 3.6 3.0	t/d 5.92 88.4 3.61 2.80	mg/l 6.7 6.5	t/d 9.32 8.98 27.5 8.66
1 2 3 4 5 6	mg/l 2.2 2.2 2.5 15.6 2.7 2.1	t/d 1.61 1.49 1.92 19.0 2.28 1.43	mg/l 4.4 16.8 4.7 3.8 7.5 6.3	t/d 5.01 31.5 5.54 4.02 9.78 7.55	mg/l 10.7 3.4 2.9 3.8 2.6 2.7	t/d 14.8 3.35 2.70 3.89 2.25 2.33	mg/l 2.2 2.2 111.0	t/d 1.64 1.60 310 5.86 2.60 2.14	mg/l 5.0 49.6 3.6 3.0 2.5 17.6	t/d 5.92 88.4 3.61 2.80 2.10 25.1	mg/l 6.7 6.5 14.1 6.3 4.8 5.2	t/d 9.32 8.98 27.5 8.66 5.77 6.54
1 2 3 4 5 6 7	mg/l 2.2 2.2 2.5 15.6 2.7 2.1 1555.2	1.61 1.49 1.92 19.0 2.28 1.43 10534	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9	t/d 5.01 31.5 5.54 4.02 9.78 7.55 5.78	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4	1.64 1.60 310 5.86 2.60 2.14 4.34	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1	t/d 5.92 88.4 3.61 2.80 2.10 25.1 4.29	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54
1 2 3 4 5 6 7 8	mg/l 2.2 2.2 2.5 15.6 2.7 2.1 1555.2 868.1	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2	t/d 5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54
1 2 3 4 5 6 7 8	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4	t/d 5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79
1 2 3 4 5 6 7 8 9	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1	t/d 1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5	t/d 5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3	t/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60
1 2 3 4 5 6 7 8	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4	t/d 5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6	1/d 9.32 8.98 27.5 8.66 5.77 6.54 95.5 5.79 6.60 4.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12 4.91	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12 4.91 3.93	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7 121.7	1/d 9.32 8.98 27.5 8.66 5.77 6.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6 6.4 2.8	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 1.53 1.71 1.53 1.47 1.54 5.43 7.15 2.47	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5	1,64 1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 8,14 5,49 20,5 4,12 4,91 3,93 2,08	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7 121.7 6.1	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6 6.4 2.8 2.2	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15 2.47	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 4.8	1,64 1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 8,14 5,49 20,5 4,12 4,91 3,93 2,08 4,54	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 4.29 8.35 4.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1 6.1	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 4.8	1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 814 5,49 20,5 4,12 4,91 3,93 2,08 4,54 2,06	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8	1/d 9.32 8.98 27.5 8.66 5.77 6.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35 4.68 3.97
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8	**Total Number	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.74 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 4.8 2.5 2.2 2.1	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12 4.91 3.93 2.08 4.54 2.06 1.53 1.41	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8	9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35 4.68 3.97 3.08 2.52
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1 4.1 3.6 3.3	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5 12.9 11.5 6.16	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46 4.88	mg/l 2.2 2.2 111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 4.8 2.5 2.1 2.1	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12 4.91 3.93 2.08 4.54 2.06 1.53 1.41 1.33	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35 1183	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 4.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5	9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 4.29 8.35 4.68 3.97 3.08 2.52 2.12
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.1 6.1 4.1 3.6 3.3 3.2	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19 3.13	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0 4.1	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5 12.9 11.5 6.16 4.57	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3 2.2	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46 4.88 1.55	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 4.8 2.5 2.2 2.1 2.1	1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 8,14 5,49 20,5 4,12 4,91 3,93 2,08 4,54 2,06 1,53 1,41 1,33 1,35	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7 608.7	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35 1183 7994	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5 2.7	1/d 9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 4.68 3.97 3.08 2.52 2.12 2.32
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.1 6.1 4.1 3.6 3.3 3.2 3.3 3.5 3.6 1063.1 35.8 14.5 11.9	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19 3.12 3.41 3.41 16640 112 30.0 21.0	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0 4.1 61.6 70.0 63.2 11.3 7.6 5.2 4.2	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5 12.9 11.5 6.16 4.57 138 168 176 21.2 11.5 6.50 4.77	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3 2.2 10.3 12.3 2.3 2.1 29.5	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.47 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46 4.88 1.55 1.49 9.77 18.1 1.75 1.53 1.35 44.7	mg/l 2.2 2.1 11.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 2.2 2.1 2.1 2.1 2.1 7.1 9.8 18.2 3.1 202.3 17.7	1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 8,14 5,49 20,5 4,12 4,91 3,93 2,08 4,54 2,06 1,53 1,41 1,33 1,35 1,24 7,73 11,19 27,5 2,93 764 31,3	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7 608.7 85.4 86.5 23.7 13.8 11.1 27.4 9.8	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35 1183 7994 473 429 67.1 29.4 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5 2.7 2.9 4.5 2.7 2.2 3.8 3.9 2.3	## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83 ## 1.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1 4.1 3.6 3.3 3.2 3.3 3.5 3.6 1063.1 35.8 14.5 11.9 6.6	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19 3.13 3.12 3.41 3.41 16640 112 30.0 21.0 9.33	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0 4.1 61.6 70.0 63.2 11.3 7.6 5.2 4.2 4.6	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5 12.9 11.5 6.16 4.57 138 168 176 21.2 11.5 6.50 4.77 5.23	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3 2.2 2.2 10.3 12.3 2.3 2.2 2.1	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.47 1.53 1.47 1.57 266 3.62 5.46 4.88 1.55 1.49 9.77 18.1 1.75 1.53 1.35	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 2.2 2.1 2.1 2.1 2.1 7.1 9.8 18.2 3.1 202.3 17.7 185.9	1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 814 5,49 20,5 4,12 4,91 3,93 2,08 4,54 2,06 1,53 1,41 1,35 1,24 7,73 11,19 27,5 2,93 764 31,3 485	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7 608.7 85.4 86.5 23.7 13.8 11.1 27.4	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35 1183 7994 473 429 67.1 29.4 20.8 69.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5 2.7 2.9 4.5 2.7 2.2 3.8 3.9 2.3 2.2	1/d 9.32 8.98 27.5 8.66 5.77 6.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35 4.68 3.97 3.08 2.52 2.12 2.32 2.60 4.51 2.37 1.71 3.46 3.74 1.83 1.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.1 6.1 4.1 3.6 3.3 3.2 3.3 3.5 3.6 1063.1 35.8 14.5 11.9	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19 3.13 3.12 3.41 3.41 16640 112 30.0 21.0 9.33 6.59	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0 4.1 61.6 70.0 63.2 11.3 7.6 5.2 4.2	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 4.90 20.7 30.5 12.9 11.5 6.16 4.57 138 168 176 21.2 11.5 6.50 4.77 5.23 3.83	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3 2.2 10.3 12.3 2.3 2.1 29.5	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.71 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46 4.88 1.55 1.49 9.77 18.1 1.75 1.53 1.35 44.7 2.45	mg/l 2.2 2.1 11.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 2.2 2.1 2.1 2.1 2.1 7.1 9.8 18.2 3.1 202.3 17.7	1.64 1.60 310 5.86 2.60 2.14 4.34 2.40 8.08 814 5.49 20.5 4.12 4.91 3.93 2.06 1.53 1.41 1.33 1.35 1.24 7.73 11.9 27.5 2.93 764 31.3	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7 608.7 85.4 86.5 23.7 13.8 11.1 27.4 9.8	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 5.46 4.52 6.35 1183 7994 473 429 67.1 29.4 20.8 69.5 16.7	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5 2.7 2.9 4.5 2.7 2.2 3.8 3.9 2.3	9.32 8.98 27.5 8.66 5.77 6.54 5.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35 4.68 3.97 3.08 2.52 2.32 2.60 4.51 2.37 1.71 3.46 3.74 1.69 1.56
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 2.2 2.5 15.6 2.7 2.1 1555.2 868.1 12.5 8.4 16.0 7.8 18.0 15.3 6.9 6.9 6.1 4.1 3.6 3.3 3.2 3.3 3.5 3.6 1063.1 35.8 14.5 11.9 6.6	t/d 1.61 1.49 1.92 19.0 2.28 1.43 10534 8091 24.7 13.6 31.1 12.2 35.8 31.8 10.1 9.64 8.17 7.93 4.55 3.74 3.19 3.12 3.41 3.41 16640 112 30.0 21.0 9.33 6.59 35682	mg/l 4.4 16.8 4.7 3.8 7.5 6.3 4.9 48.3 6.3 5.7 208.6 10.4 6.0 4.8 10.5 137.3 11.4 16.8 8.2 7.8 5.0 4.1 61.6 70.0 63.2 11.3 7.6 5.2 4.2 4.6	5.01 31.5 5.54 4.02 9.78 7.55 5.78 137 8.77 6.92 1036 18.5 8.18 5.82 15.4 490 20.7 30.5 12.9 11.5 6.16 4.57 138 168 176 21.2 11.5 6.50 4.77 5.23	mg/l 10.7 3.4 2.9 3.8 2.6 2.7 2.7 14.8 2.7 2.2 2.1 2.2 5.6 6.4 2.8 2.2 132.4 3.7 5.4 5.3 2.2 10.3 12.3 2.3 2.1 29.5	t/d 14.8 3.35 2.70 3.89 2.25 2.33 2.33 19.1 2.33 1.47 1.53 1.47 1.54 5.43 7.15 2.47 1.57 266 3.62 5.46 4.88 1.55 1.49 9.77 18.1 1.75 1.53 1.35 44.7 2.45 439	mg/l 2.2 2.111.0 5.1 2.9 2.6 4.4 2.8 7.6 256.1 4.7 14.8 3.9 4.9 3.8 2.5 2.2 2.1 2.1 2.1 2.1 7.1 9.8 18.2 3.1 202.3 17.7 185.9	1,64 1,64 1,60 310 5,86 2,60 2,14 4,34 2,40 8,08 8,14 5,49 20,5 4,12 4,91 3,93 2,08 4,54 2,06 1,53 1,13 1,35 1,24 7,73 11,9 27,5 2,93 764 31,3 485 12,8 2551	mg/l 5.0 49.6 3.6 3.0 2.5 17.6 4.1 14.2 9.4 3.5 829.9 22.1 184.4 14.2 7.1 5.4 8.0 4.6 4.1 5.4 275.7 608.7 85.4 86.5 23.7 13.8 11.1 27.4 9.8	5.92 88.4 3.61 2.80 2.10 25.1 4.29 20.8 12.5 3.54 7461 56.1 607 28.7 10.5 6.95 11.2 5.46 4.52 6.35 1183 7994 473 429 67.1 29.4 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5	mg/l 6.7 6.5 14.1 6.3 4.8 5.2 4.7 45.0 4.8 5.3 3.5 6.6 3.7 121.7 6.1 4.2 3.8 3.2 2.8 2.5 2.7 2.9 4.5 2.7 2.2 3.8 3.9 2.3 2.2 2.2	1/d 9.32 8.98 27.5 8.66 5.77 6.54 95.5 5.79 6.60 4.85 3.52 7.63 3.85 429 8.35 4.68 3.97 3.08 2.52 2.12 2.32 2.60 4.51 2.37 1.71 3.46 3.74 1.83 1.69

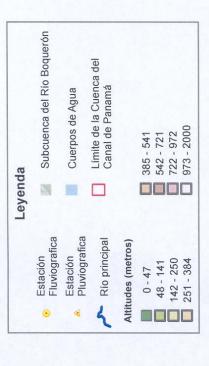
Concentración de Sedimentos Suspendidos (mg/l)

Mínimo Diario: 1.5 Promedio Anual: 187.1
Máximo Diario: 1555.2 Máxima Instantánea 2126.1

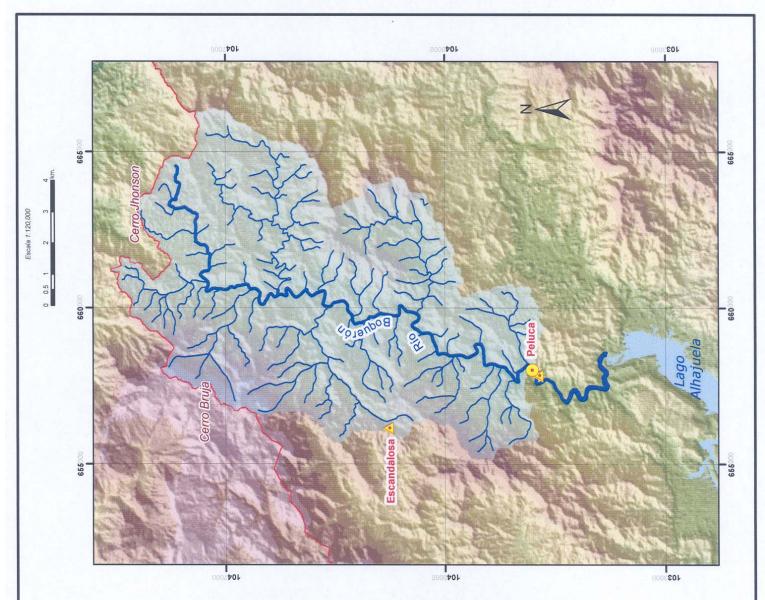
Subcuenca del río Boquerón

(hasta la estación Peluca)

Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIONES







Estación Peluca en el Río Boquerón





LOCALIZACIÓN: La estación está a 400 m (0.25 mi) aguas abajo de su confluencia con la quebrada Peluca, en la provincia de Colón, distrito de Colón, en el poblado de Boquerón Arriba, frente a la escuela del mismo nombre. Sus coordenadas geográficas son: 9° 22' 48" de latitud Norte y 79° 33' 40" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-06-01

ÁREA DE DRENAJE: 91 km² (35 mi²)

PERIODO DE REGISTRO: Desde septiembre de 1933 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal i	máximo táneo	Elevació	diario				Cau prom anı	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
27/may.	282.02	85.96	19667	557	15/mar.	264.10	80.50	36.30	1.03	271	7.68

Cor	ncentración (mg/l)	Rendimiento líquido	Producción anual de sedimentos		
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km ²
1755.0	0.5	219.4	84.4	53156	584

ESTACIÓN PELUCA EN EL RÍO BOQUERÓN Caudales promedios diarios en pie³/s

Sensor 4511 Latitud 9° 22' 48" N Longitud 79° 33' 40" O Año: 2006

Area de drenaje: 35 mi² Elevación: 350 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	93.6	136	66.4	104	111	209	136	198	357	175	338	359
2	90.1	105	55.4	92.4	104	182	133	282	216	190	399	355
3	85.1	86.7	52.1	78.5	90.9	228	129	193	179	512	225	471
4	82.7	76.3	52.7	69.9	130	496	240	173	411	211	235	344
5	92.8	116	50.7	65.0	134	171	153	252	228	154	176	300
6	78.4	90.4	48.5	59.2	772	141	128	193	221	134	331	298
7	86.9	76.1	46.9	67.9	371	132	2051	182	241	149	240	318
8	96.3	70.6	42.4	56.3	274	129	2420	992	247	145	480	307
9	83.9	65.1	41.1	55.8	230	169	439	350	183	144	423	262
10	82.4	64.4	39.9	53.6	278	292	297	240	155	624	289	243
11	74.4	61.1	39.7	63.9	204	158	401	1947	142	230	2905	237
12	69.9	61.3	39.2	57.1	158	129	334	545	136	344	828	209
13	67.1	60.9	38.3	50.5	134	752	361	345	135	262	574	225
14	67.4	57.9	37.6	46.7	239	270	398	286	148	192	495	216
15	68.4	62.5	36.3	45.2	169	277	275	299	164	186	367	643
16	64.9	60.9	48.4	43.2	196	180	278	833	154	155	305	305
17	62.2	54.0	56.2	41.1	118	156	254	414	129	148	269	233
18	62.1	64.8	46.1	44.2	129	139	219	318	134	140	349	216
19	64.5	60.0	39.6	41.3	171	147	200	286	142	127	307	201
20	84.7	52.3	37.3	175	107	826	173	274	280	116	263	178
21	68.1	54.0	38.6	99.2	99.1	490	158	235	185	111	902	165
22	60.3	52.0	37.8	67.1	118	321	152	214	133	108	3844	186
23	57.6	50.1	257	55.1	108	227	149	302	121	107	1620	167
24	58.9	48.1	299	1599	103	229	141	446	112	230	1673	219
25	138	51.6	211	290	88.5	187	185	458	133	147	862	252
26	119	60.3	115	581	307	174	2635	346	106	281	601	174
27	137	53.8	88.0	302	3853	181	707	274	107	168	477	158
28	209	68.0	557	279	420	243	446	234	100	1134	672	152
29	125		291	179	436	164	323	200	685	609	466	145
30	123		153	132	283	148	270	235	249	296	359	159
31	124		117		246		242	194		261		145

Cau	ıda	وما	extr	em	20
Cal	Jua	CO	CVII		UO

		Cau	שמוכט באנו כו	1105								
	Máximos	Instantáneos		N	Mínimos Diari	os		Caudales	Promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	25	265.13	304	23	264.26	57.6		89.6	2.56		5509	3.0
Feb	5	265.05	272	24	264.19	48.1		68.6	1.96		3810	2.0
Mar	23	267.10	1597	15	264.10	36.3		99.3	2.84		6108	3.3
Abr	24	272.57	7463	17	264.14	41.1		163	4.66		9710	5.2
May	27	282.02	19667	25	264.43	88.5		328	9.38		20194	10.8
Jun	20	269.65	4135	8	264.61	129		252	7.19		14968	8.0
Jul	7	281.39	18796	6	264.60	128		465	13.3		28611	15.3
Ago	11	274.17	9379	4	264.76	173		379	10.8		23289	12.5
Sep	29	272.38	7241	28	264.49	100		198	5.65		11767	6.3
Oct	28	271.51	6239	23	264.52	107		251	7.18		15450	8.3
Nov	11	276.90	12805	5	264.77	176		709	20.3		42195	22.6
Dic	15	267.18	1667	29	264.67	145		253	7.23		15551	8.3
Anual	27	282.02	19667	15	264.10	36.3	Promedio	271	7.75	Total	197161	105.6

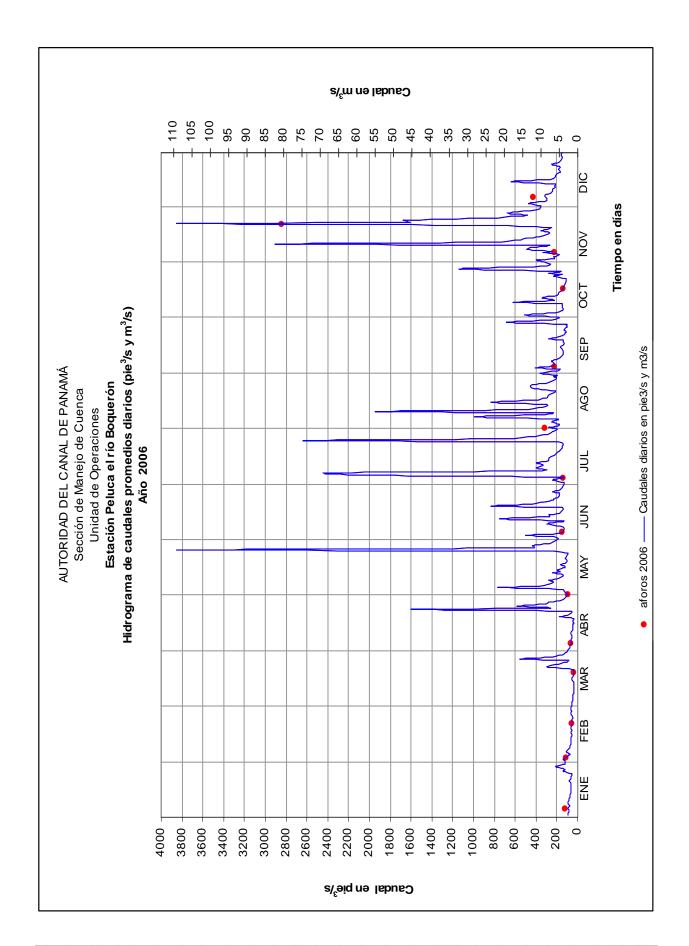
ESTACIÓN PELUCA EN EL RÍO BOQUERÓN Caudales promedios diarios en m³/s

Sensor 4511 Latitud 9° 22' 48" N Longitud 79° 33' 40" O Año: 2006

Área de drenaje: 91 km² Elevación: 107 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	2.65	3.86	1.88	2.94	3.15	5.91	3.84	5.61	10.1	4.94	9.58	10.2
2	2.55	2.98	1.57	2.62	2.96	5.15	3.76	7.98	6.11	5.37	11.3	10.1
3	2.41	2.45	1.48	2.22	2.57	6.45	3.65	5.47	5.06	14.5	6.37	13.3
4	2.34	2.16	1.49	1.98	3.68	14.0	6.81	4.90	11.6	5.97	6.66	9.76
5	2.63	3.28	1.44	1.84	3.81	4.84	4.33	7.15	6.46	4.36	4.99	8.49
6	2.22	2.56	1.37	1.68	21.9	3.98	3.62	5.47	6.25	3.80	9.38	8.43
7	2.46	2.15	1.33	1.92	10.5	3.75	58.1	5.17	6.83	4.22	6.79	9.01
8	2.73	2.00	1.20	1.60	7.76	3.65	68.5	28.1	6.99	4.10	13.6	8.69
9	2.38	1.84	1.16	1.58	6.52	4.78	12.4	9.92	5.19	4.08	12.0	7.41
10	2.33	1.82	1.13	1.52	7.86	8.27	8.42	6.79	4.39	17.7	8.19	6.88
11	2.11	1.73	1.12	1.81	5.78	4.48	11.4	55.1	4.03	6.51	82.3	6.70
12	1.98	1.74	1.11	1.62	4.47	3.66	9.45	15.4	3.86	9.74	23.4	5.91
13	1.90	1.72	1.09	1.43	3.81	21.3	10.2	9.77	3.82	7.41	16.3	6.38
14	1.91	1.64	1.07	1.32	6.78	7.65	11.3	8.11	4.19	5.42	14.0	6.12
15	1.94	1.77	1.03	1.28	4.77	7.84	7.77	8.46	4.63	5.26	10.4	18.2
16	1.84	1.72	1.37	1.22	5.54	5.10	7.86	23.6	4.37	4.38	8.63	8.62
17	1.76	1.53	1.59	1.16	3.33	4.41	7.19	11.7	3.65	4.19	7.63	6.59
18	1.76	1.84	1.31	1.25	3.65	3.94	6.20	9.01	3.81	3.97	9.90	6.12
19	1.83	1.70	1.12	1.17	4.85	4.17	5.67	8.09	4.03	3.58	8.68	5.68
20	2.40	1.48	1.06	4.96	3.04	23.4	4.90	7.75	7.94	3.30	7.46	5.04
21	1.93	1.53	1.09	2.81	2.81	13.9	4.48	6.67	5.23	3.13	25.5	4.67
22	1.71	1.47	1.07	1.90	3.35	9.10	4.29	6.07	3.76	3.07	109	5.26
23	1.63	1.42	7.27	1.56	3.06	6.43	4.23	8.54	3.42	3.03	45.9	4.74
24	1.67	1.36	8.48	45.3	2.91	6.49	3.98	12.6	3.17	6.53	47.4	6.21
25	3.91	1.46	5.98	8.22	2.51	5.31	5.23	13.0	3.75	4.17	24.4	7.14
26	3.37	1.71	3.27	16.5	8.70	4.92	74.6	9.81	3.01	7.96	17.0	4.93
27	3.87	1.52	2.49	8.56	109	5.11	20.0	7.77	3.04	4.77	13.5	4.47
28	5.92	1.93	15.8	7.90	11.9	6.89	12.6	6.63	2.82	32.1	19.0	4.31
29	3.53		8.24	5.07	12.3	4.64	9.15	5.66	19.4	17.2	13.2	4.09
30	3.49		4.32	3.75	8.02	4.18	7.66	6.66	7.06	8.39	10.2	4.50
31	3.51		3.32		6.96		6.85	5.49		7.40		4.11

	Máximos	instantáneos		1	Mínimos diari	os		Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m ³ /s		m³/s	l/s/km ²		MMC	mm
Ene	25	80.81	8.60	23	80.55	1.63		2.54	27.9		6.80	74.7
Feb	5	80.79	7.70	24	80.53	1.36		1.94	21.3		4.70	51.6
Mar	23	81.41	45.2	15	80.50	1.03		2.81	30.9		7.54	82.8
Abr	24	83.08	211	17	80.51	1.16		4.62	50.8		12.0	132
May	27	85.96	557	25	80.60	2.51		9.30	102		24.9	274
Jun	20	82.19	117	8	80.65	3.65		7.12	78.3		18.5	203
Jul	7	85.77	532	6	80.65	3.62		13.2	145		35.3	388
Ago	11	83.57	266	4	80.70	4.90		10.7	118		28.7	316
Sep	29	83.02	205	28	80.62	2.82		5.60	61.5		14.5	160
Oct	28	82.76	177	23	80.63	3.03		7.12	78.2		19.1	209
Nov	11	84.40	363	5	80.70	4.99		20.1	221		52.1	572
Dic	15	81.44	47.2	29	80.67	4.09		7.16	78.7		19.2	211
Anual	27	85.96	557	15	80.50	1.03	Promedio	7.68	84.4	Total	243	2673



ESTACIÓN PELUCA EN EL RÍO BOQUERÓN

Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUI	D 9º 22' 48"	N L	ONGITU	O 79º 33'	40" O	Año:	2006		Área de D	renaje:	91 k	m²
DIA	EN	IERO	FEBI	RERO		ARZO		RIL	М	AYO		JNIO
1	mg/l 1.8	t/d 0.415	mg/l 3.1	t/d 1.05	mg/l 1.1	t/d 0.179	mg/l 2.1	t/d 0.528	mg/l 2.3	t/d 0.625	mg/l 5.8	t/d 2.98
2	1.7	0.413	2.1	0.550	0.8	0.179	1.8	0.328	2.3	0.536	4.8	2.12
3	1.5	0.322	1.6	0.338	0.7	0.096	1.4	0.264	1.7	0.380	10.6	5.92
4 5	1.5 1.8	0.300 0.412	1.3 3.5	0.246 1.00	0.8 0.7	0.099 0.089	1.2 1.0	0.198 0.165	3.1 3.2	0.972 1.07	124.0 4.5	150 1.86
6	1.4	0.412	3.5 1.7	0.387	0.7	0.089	0.9	0.103	3.2 175.4	331	3.3	1.12
7	1.6	0.347	1.3	0.244	0.6	0.073	1.1	0.187	15.3	13.9	3.0	0.963
8	1.9	0.442	1.2	0.203	0.6	0.058	0.8	0.116	9.5	6.35	2.9	0.898
9 10	1.5 1.5	0.311 0.298	1.0 1.0	0.166 0.161	0.5 0.5	0.055 0.053	0.8 0.8	0.113 0.102	7.2 19.9	4.06 13.5	5.2 18.6	2.15 13.3
11	1.3	0.231	0.9	0.142	0.5	0.053	1.0	0.160	5.8	2.89	4.3	1.65
12	1.2	0.198	1.0	0.143	0.5	0.052	0.9	0.121	3.9	1.49	2.9	0.919
13 14	1.1 1.1	0.179 0.181	0.9 0.9	0.141 0.124	0.5 0.5	0.050 0.049	0.7 0.6	0.088 0.073	3.0 18.2	1.00 10.6	212.1 10.2	390 6.77
15	1.1	0.188	1.0	0.152	0.5	0.043	0.6	0.067	4.4	1.80	15.5	10.5
16	1.0	0.164	0.9	0.141	0.7	0.088	0.6	0.060	10.3	4.92	4.7	2.09
17 18	1.0 1.0	0.148 0.148	0.8	0.104	0.9 0.6	0.120 0.071	0.5 0.6	0.055 0.065	2.5	0.720 1.03	3.8 3.2	1.45
19	1.0	0.146	1.1 0.9	0.170 0.136	0.6	0.071	0.6	0.055	3.3 5.9	2.46	3.2 3.5	1.09 1.26
20	1.6	0.337	0.8	0.097	0.5	0.048	23.0	9.88	2.2	0.575	222.2	449
21	1.1	0.187	0.8	0.105	0.5	0.051	2.0	0.496	1.9	0.469	30.3	36.3
22 23	0.9 0.9	0.137 0.122	0.7 0.7	0.095 0.086	0.5 48.0	0.049 30.2	1.1 0.8	0.181 0.110	3.1 2.4	0.900 0.642	11.9 6.6	9.39 3.68
24	0.9	0.129	0.7	0.078	18.7	13.7	632.0	2473	2.1	0.538	6.8	3.82
25	4.8	1.64	0.7	0.093	6.2	3.22	9.8	6.98	1.6	0.355	5.0	2.28
26 27	2.7 3.2	0.775 1.07	1.0 0.8	0.140 0.104	2.5 1.6	0.709 0.351	59.1 10.8	84.0 7.98	28.4 1034.1	21.4 9747	4.4 5.1	1.89 2.26
28	6.1	3.13	1.1	0.104	29.4	40.1	9.5	6.51	18.5	19.0	8.8	5.22
29	2.8	0.843			11.6	8.28	4.8	2.09	29.0	30.9	4.1	1.64
30 31	2.7 2.8	0.819 0.839			3.7 2.5	1.40 0.717	3.0	0.967	9.4 7.8	6.54 4.69	3.5	1.26
Total	2.0	15.1		6.59	2.5	100		2595	1.0	10233		1115
_ : .												_
DÍA	JULIO ma/l		AGOSTO		SEPTIEM mg/l		OCTUBRE		NOVIEME		DICIEMBF	
1	mg/l 3.1	t/d 1.02	mg/l 5.4	t/d 2.61	SEPTIEM mg/l 24.8	t/d 21.7	OCTUBRE mg/l 4.5	t/d 1.91	NOVIEME mg/l 35.3	RE I t/d 29.2	mg/l 13.2	t/d 11.6
1 2	mg/l 3.1 3.0	t/d 1.02 0.970	mg/l 5.4 12.3	t/d 2.61 8.49	mg/l 24.8 6.2	t/d 21.7 3.27	mg/l 4.5 5.2	t/d 1.91 2.41	mg/l 35.3 44.5	t/d 29.2 43.4	mg/l 13.2 12.8	t/d 11.6 11.1
1 2 3	mg/l 3.1 3.0 2.9	t/d 1.02 0.970 0.902	mg/l 5.4 12.3 5.2	t/d 2.61 8.49 2.48	mg/l 24.8 6.2 4.6	t/d 21.7 3.27 2.03	mg/l 4.5 5.2 49.7	t/d 1.91 2.41 62.2	mg/l 35.3 44.5 6.8	t/d 29.2 43.4 3.72	mg/l 13.2 12.8 21.2	t/d 11.6 11.1 24.4
1 2	mg/l 3.1 3.0	t/d 1.02 0.970	mg/l 5.4 12.3	t/d 2.61 8.49	mg/l 24.8 6.2	t/d 21.7 3.27	mg/l 4.5 5.2	t/d 1.91 2.41	mg/l 35.3 44.5	t/d 29.2 43.4	mg/l 13.2 12.8	t/d 11.6 11.1
1 2 3 4 5	mg/l 3.1 3.0 2.9 16.7 4.2 2.8	t/d 1.02 0.970 0.902 9.81 1.59 0.883	mg/l 5.4 12.3 5.2 4.4 11.8 5.2	t/d 2.61 8.49 2.48 1.88 7.27 2.47	mg/l 24.8 6.2 4.6 52.4 6.9 8.0	t/d 21.7 3.27 2.03 52.6 3.84 4.32	mg/l 4.5 5.2 49.7 6.2 3.7 3.0	t/d 1.91 2.41 62.2 3.19 1.41 1.00	mg/l 35.3 44.5 6.8 8.0 4.5 16.0	t/d 29.2 43.4 3.72 4.60 1.95 13.0	mg/l 13.2 12.8 21.2 12.3 10.6 10.6	t/d 11.6 11.1 24.4 10.4 7.81 7.74
1 2 3 4 5 6 7	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7	t/d 1.02 0.970 0.902 9.81 1.59 0.883 7790	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8	1.91 2.41 62.2 3.19 1.41 1.00 1.37	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03
1 2 3 4 5	mg/l 3.1 3.0 2.9 16.7 4.2 2.8	t/d 1.02 0.970 0.902 9.81 1.59 0.883	mg/l 5.4 12.3 5.2 4.4 11.8 5.2	t/d 2.61 8.49 2.48 1.88 7.27 2.47	mg/l 24.8 6.2 4.6 52.4 6.9 8.0	t/d 21.7 3.27 2.03 52.6 3.84 4.32	mg/l 4.5 5.2 49.7 6.2 3.7 3.0	t/d 1.91 2.41 62.2 3.19 1.41 1.00	mg/l 35.3 44.5 6.8 8.0 4.5 16.0	t/d 29.2 43.4 3.72 4.60 1.95 13.0	mg/l 13.2 12.8 21.2 12.3 10.6 10.6	t/d 11.6 11.1 24.4 10.4 7.81 7.74
1 2 3 4 5 6 7 8 9	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7	t/d 1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33
1 2 3 4 5 6 7 8 9 10	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 7.3 7.0 5.8	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97
1 2 3 4 5 6 7 8 9 10 11 12 13 14	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8	t/d 1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8	t/d 1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8	1,91 2,41 62,2 3,19 1,41 1,00 1,37 1,28 1,42 227 4,08 37,6 5,62 2,44 2,48 1,42	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2	### 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8	t/d 1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2	t/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5	t/d 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4	1/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 4.3 3.8 2.9 3.4 3.5	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 0.899 1.11 1.22	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 1.29 1.13 0.862	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 1.29 0.701	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5 10.7 8.5	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0	1/d 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 4.3 3.8 2.9 3.4 3.5	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 0.899 1.11 1.22	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 1.29 1.13 0.862	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5	t/d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0 6.1 18.2	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 5.0 5.3 3.0 2.6	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.2 2.2	1,91 2,41 62,2 3,19 1,41 1,00 1,37 1,28 1,42 227 4,08 37,6 5,62 2,44 2,48 2,48 1,42 1,29 1,13 0,862 0,701 0,585 0,568	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 10.7 8.5 132.3 637.5 125.5	### 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.5 4.6 4.1 4.2	#dd 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6 3.3	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0 6.1 18.2 41.7	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4 45.5	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0 5.3 3.0 2.6 2.3	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 1.29 1.13 0.862 0.701 0.617 0.585 0.568 7.80	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5 10.7 8.5 132.3 637.5 125.5 200.0	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498 818	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4	#dd 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6 3.3 7.3 724.5 39.7	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13 3.29 4670 68.6	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 6.1 18.2 41.7 31.5 12.7 8.9	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4 45.5 35.3 10.7 5.95	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0 5.3 3.0 2.6 2.3 3.1 2.1 2.2	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635 1.01 0.558 0.581	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8 3.7 19.1 4.3	1,91 2,41 62,2 3,19 1,41 1,00 1,37 1,28 1,42 227 4,08 37,6 5,62 2,44 2,48 1,42 1,29 1,13 0,862 0,701 0,585 0,568 7,80 1,33 13,1 1,79	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5 10.7 8.5 132.3 637.5 125.5 200.0 48.7 28.2 19.8	### 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498 818 103 41.5 23.2	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4 8.5 3.9	#d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03 5.27 1.90 1.49
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 5.5 4.4 3.9 3.7 3.6 3.3 7.3 724.5 39.7 18.4	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13 3.29 4670 68.6 20.1	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0 6.1 18.2 41.7 31.5 12.7 8.9 6.9	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4 45.5 35.3 10.7 5.95 3.96	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 5.2 2.0 5.3 3.0 2.6 2.3 3.1 2.1 2.2 2.0	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635 1.01 0.558 0.581 0.477	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8 3.7 19.1 4.3 326.1	1,91 2,41 62,2 3,19 1,41 1,00 1,37 1,28 1,42 227 4,08 37,6 5,62 2,44 2,48 1,42 1,29 1,13 0,862 0,701 0,585 0,568 7,80 1,33 13,1 1,79 904	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 10.7 8.5 132.3 637.5 125.5 200.0 48.7 28.2 19.8 39.6	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5.596 4.98 8.18 103 41.5 23.2 65.1	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4 8.5 3.9 3.7	#dd 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03 5.27 1.90 1.49 1.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6 3.3 7.3 724.5 39.7	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13 3.29 4670 68.6	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 6.1 18.2 41.7 31.5 12.7 8.9	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4 45.5 35.3 10.7 5.95	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0 5.3 3.0 2.6 2.3 3.1 2.1 2.2	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635 1.01 0.558 0.581	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8 3.7 19.1 4.3	1,91 2,41 62,2 3,19 1,41 1,00 1,37 1,28 1,42 227 4,08 37,6 5,62 2,44 2,48 1,42 1,29 1,13 0,862 0,701 0,585 0,568 7,80 1,33 13,1 1,79	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 18.5 10.7 8.5 132.3 637.5 125.5 200.0 48.7 28.2 19.8	### 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498 818 103 41.5 23.2	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4 8.5 3.9	#d 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03 5.27 1.90 1.49
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6 3.3 7.3 724.5 39.7 18.4 11.2	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13 3.29 4670 68.6 20.1 8.85 5.67 4.30	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0 6.1 18.2 41.7 31.5 12.7 8.9 6.9 5.5	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 4.05 3.17 13.4 45.5 35.3 10.7 5.95 3.96 2.67 5.05 2.50	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0 5.3 3.0 2.6 2.3 3.1 2.1 2.2 472.5	t/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635 1.01 0.558 0.581 0.477 792 5.05	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8 3.7 19.1 4.3 326.1 59.8	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 0.701 0.617 0.568 7.80 1.33 13.1 1.79 904 89.1 7.97 5.80	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 10.7 8.5 132.3 637.5 125.5 200.0 48.7 28.2 19.8 39.6 21.3	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498 818 103 41.5 23.2 65.1 24.3 11.4	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4 8.5 3.9 3.7 3.4	## 11.6 11.1 24.4 10.4 7.81 7.74 9.03 7.98 5.21 4.33 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03 5.27 1.90 1.49 1.36 1.20 1.55 1.21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 3.1 3.0 2.9 16.7 4.2 2.8 1552.7 859.7 18.2 10.0 22.6 14.0 15.8 16.8 8.8 10.3 8.1 6.3 5.5 4.4 3.9 3.7 3.6 3.3 7.3 724.5 39.7 18.4 11.2 8.6	1.02 0.970 0.902 9.81 1.59 0.883 7790 5091 19.5 7.30 22.2 11.4 14.0 16.4 5.91 7.01 5.01 3.35 2.68 1.87 1.50 1.36 1.32 1.13 3.29 4670 68.6 20.1 8.85 5.67	mg/l 5.4 12.3 5.2 4.4 11.8 5.2 4.9 189.7 12.9 7.3 576.8 26.4 12.3 9.3 10.2 169.4 16.5 11.0 9.4 9.0 7.0 6.1 18.2 41.7 31.5 12.7 8.9 6.9 5.5 8.8	## 2.61 8.49 2.48 1.88 7.27 2.47 2.17 460 11.0 4.31 2747 35.2 10.4 6.55 7.48 345 16.7 8.53 6.57 6.05 3.17 13.4 45.5 35.3 10.7 5.95 3.96 2.67 5.05	mg/l 24.8 6.2 4.6 52.4 6.9 8.0 12.9 11.6 4.9 3.8 3.3 3.1 3.1 3.8 4.3 3.8 2.9 3.4 3.5 20.0 5.3 3.0 2.6 2.3 3.1 2.1 2.2 472.5	1/d 21.7 3.27 2.03 52.6 3.84 4.32 7.60 6.99 2.20 1.43 1.15 1.04 1.01 1.39 1.73 1.45 0.899 1.11 1.22 13.7 2.40 0.974 0.765 0.635 1.01 0.558 0.581 0.477 792	mg/l 4.5 5.2 49.7 6.2 3.7 3.0 3.8 3.6 4.0 148.7 7.2 44.7 8.8 5.2 5.5 3.8 3.6 3.3 2.8 2.5 2.3 2.2 13.8 3.7 19.1 4.3 326.1 59.8 11.0	1.91 2.41 62.2 3.19 1.41 1.00 1.37 1.28 1.42 227 4.08 37.6 5.62 2.44 2.48 1.42 0.701 0.662 0.701 0.585 0.568 7.80 1.33 13.1 1.79 904 89.1 7.97	mg/l 35.3 44.5 6.8 8.0 4.5 16.0 7.4 55.0 25.0 9.5 927.4 48.6 29.6 21.7 13.5 10.2 8.5 10.7 8.5 132.3 637.5 125.5 200.0 48.7 28.2 19.8 39.6 21.3	## 29.2 43.4 3.72 4.60 1.95 13.0 4.32 64.5 25.9 6.75 6590 98.4 41.6 26.2 12.1 7.61 5.60 15.8 8.02 5.48 292 5996 498 818 103 41.5 23.2 65.1 24.3	mg/l 13.2 12.8 21.2 12.3 10.6 10.6 11.6 10.6 8.1 7.3 7.0 5.8 7.2 6.3 63.7 10.5 6.8 6.1 5.5 4.6 4.1 5.1 4.2 9.4 8.5 3.9 3.7 3.4 4.0	### 11.6 11.1 24.4 17.81 7.74 9.03 7.98 5.21 4.06 2.97 3.95 3.32 100 7.85 3.90 3.24 2.70 2.01 1.65 2.34 1.72 5.03 5.27 1.90 1.49 1.36 1.20 1.55

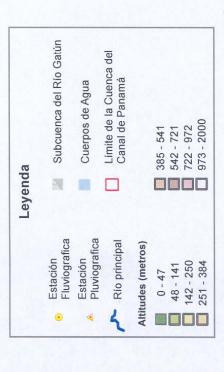
Concentración de Sedimentos Suspendidos (mg/l)

Mínimo Diario:0.5Promedio Anual:219.4Máximo Diario:1552.7Máxima Instantánea1755.0

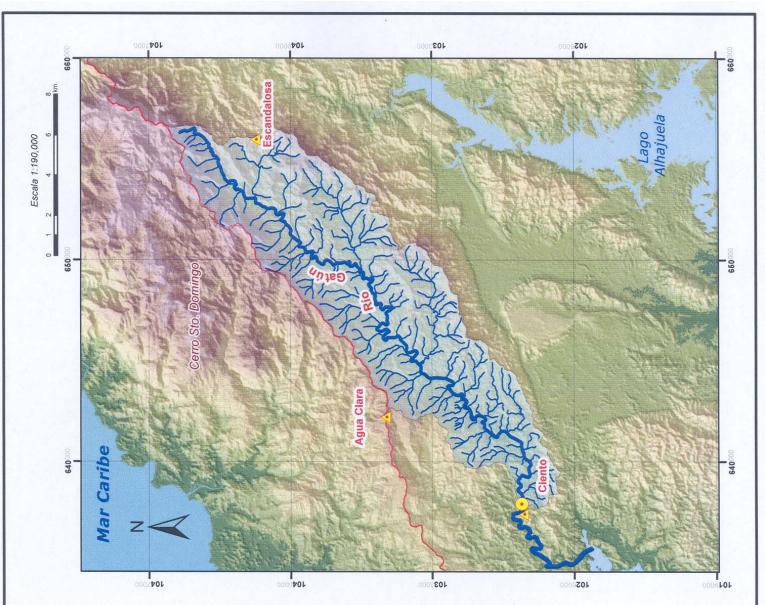
Subcuenca del río Gatún

(hasta la estación Ciento)

Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIONES







38

Estación Ciento en el Río Gatún





LOCALIZACIÓN: La estación está a 6.4 km (4.0 mi) aguas arriba del puente de la Transístmica, en la provincia de Colón, distrito de Colón. Sus coordenadas geográficas son: 9° 17' 52" de latitud Norte y 79° 43' 41" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-05-01

ÁREA DE DRENAJE: 117 km² (45 mi²)

PERIODO DE REGISTRO: Desde abril de 1943 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevació	n mínima	ı diaria	Cau mín dia		Cau prom anı	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
11/nov.	119.27	36.35	12739	361	17/abr.	100.95	30.77	28.3	0.802	224	6.35

Cor	ncentración (mg/l)	Rendimiento líquido	Producción anual de sedimentos		
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km ²
1637.7	3.9	229.4	54.3	45967	393

ESTACIÓN CIENTO EN EL RÍO GATÚN Caudales promedios diarios en pie³/s

Sensor 5211 Latitud 9° 17' 52" N Longitud 79° 43' 41"O Año: 2006

Àrea de drenaje: 45 mi² Elevación: 125 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ост	NOV	DIC
1	91.9	63.7	43.1	42.9	37.9	105	95.2	137	815	183	642	449
2	92.4	61.9	40.3	41.1	36.9	86.7	89.4	150	323	165	1099	393
3	91.0	58.8	38.6	37.9	36.9	72.4	88.4	134	232	672	439	421
4	110	56.1	37.3	36.1	35.8	64.5	163	122	344	245	268	359
5	87.6	80.9	37.0	34.8	41.5	75.8	144	125	299	174	222	321
6	85.5	90.8	38.1	34.0	85.3	61.1	95.9	125	270	159	288	299
7	89.1	61.6	37.0	32.6	100	57.4	138	114	349	157	338	286
8	86.4	57.8	35.0	32.8	119	56.0	1067	1855	405	149	415	271
9	82.1	52.8	35.8	34.8	66.9	60.2	232	500	302	232	899	257
10	79.7	50.9	35.4	37.6	54.9	203	162	248	223	514	368	407
11	77.5	49.3	33.4	40.8	78.3	183	265	1398	209	287	2949	286
12	75.2	48.5	33.0	33.4	62.4	95.7	261	602	188	335	786	236
13	73.3	47.4	32.1	31.9	49.6	98.5	471	300	177	595	506	268
14	72.6	47.9	31.9	30.7	44.8	157	335	237	258	336	403	245
15	71.3	49.3	32.1	33.7	65.5	156	201	259	327	495	350	354
16	69.6	51.4	31.6	29.8	53.0	142	166	297	225	262	314	300
17	68.3	48.7	32.5	28.3	43.9	92.3	157	262	186	220	292	233
18	67.8	44.6	35.9	36.1	59.4	80.2	137	382	172	200	310	209
19	69.7	50.2	32.8	32.0	147	79.1	145	238	172	192	328	196
20	69.3	43.1	31.1	35.1	80.8	220	129	196	214	177	310	186
21	70.4	42.9	31.2	33.6	63.4	304	198	183	186	166	1445	179
22	62.3	42.3	30.3	32.7	56.3	133	154	172	187	160	4503	174
23	62.9	41.5	30.3	29.4	58.0	172	125	175	158	159	1800	172
24	58.8	40.8	113	347	47.3	271	113	313	155	166	1429	169
25	62.0	41.4	90.1	131	43.2	181	104	262	210	194	1024	184
26	71.2	42.3	48.6	179	49.3	664	405	203	165	171	946	162
27	66.9	42.4	41.5	113	1946	270	418	215	155	163	625	192
28	79.7	39.6	105	73.2	263	174	357	172	145	401	849	162
29	72.9		132	54.7	255	122	249	162	146	600	670	151
30	63.0		62.3	43.9	210	104	179	173	328	250	583	148
31	62.1		48.6		149		147	214		220		144

		Ouu	daloo onli oi	1100								
	Máximos	Instantáneos		ľ	Mínimos Diari	os		Caudale	s Promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mer	nsuales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	4	101.97	185	24	101.22	58.8		75.6	1.68		4647	1.9
Feb	5	102.08	210	28	101.06	39.6		51.7	1.15		2874	1.2
Mar	28	102.26	254	22	100.97	30.3		46.4	1.03		2852	1.2
Abr	24	106.32	2158	17	100.95	28.3		57.8	1.28		3440	1.4
May	27	118.79	12255	4	101.02	35.8		143	3.18		8804	3.7
Jun	26	110.40	4865	8	101.20	56.0		151	3.36		9007	3.8
Jul	8	110.45	4902	3	101.43	88.4		226	5.01		13869	5.8
Ago	11	115.92	9490	7	101.60	114		320	7.11		19684	8.2
Sep	1	110.00	4570	28	101.77	145		251	5.57		14928	6.2
Oct	10	106.62	2332	8	101.79	149		271	6.02		16651	6.9
Nov	11	119.27	12739	5	102.13	222		847	18.8		50386	21.0
Dic	10	105.07	1481	31	101.76	144		252	5.60		15499	6.5
Anual	11	119.27	12739	17	100.95	28.3	Promedio	224	4.99	Total	162641	67.8

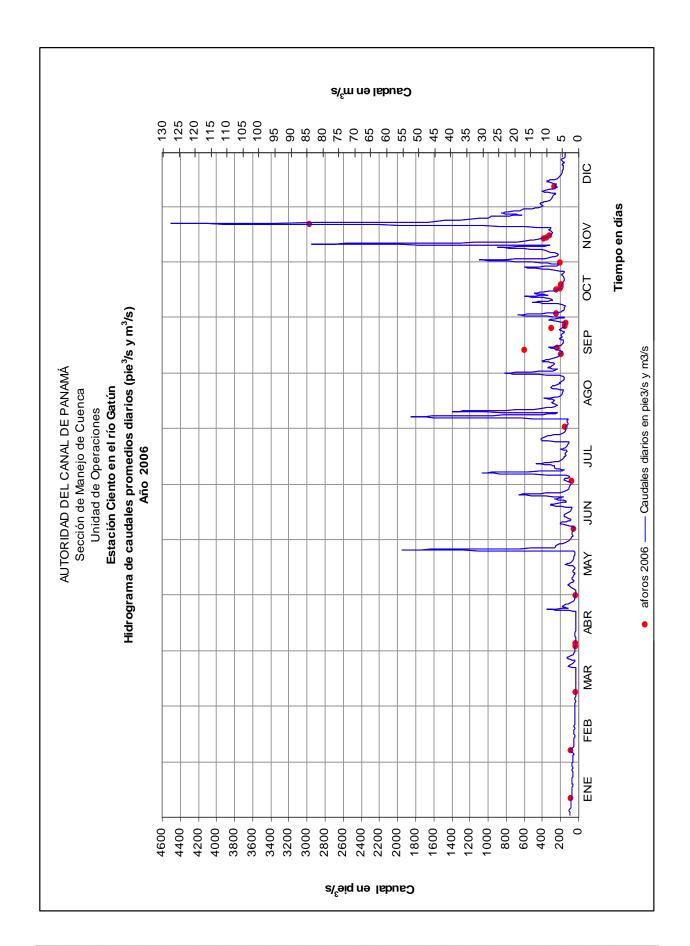
ESTACIÓN CIENTO EN EL RÍO GATÚN Caudales promedios diarios en m³/s

Sensor 5211 Latitud 9° 17' 52" N Longitud 79° 43' 41"O Año: 2006

Área de drenaje: 117 km² Elevación: 38 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ост	NOV	DIC
1	2.60	1.80	1.22	1.21	1.07	2.97	2.69	3.89	23.1	5.18	18.2	12.7
2	2.62	1.75	1.14	1.16	1.05	2.46	2.53	4.23	9.15	4.67	31.1	11.1
3	2.58	1.66	1.09	1.07	1.05	2.05	2.50	3.80	6.58	19.0	12.4	11.9
4	3.12	1.59	1.06	1.02	1.01	1.83	4.62	3.46	9.73	6.93	7.58	10.2
5	2.48	2.29	1.05	0.984	1.17	2.15	4.07	3.53	8.46	4.93	6.30	9.09
6	2.42	2.57	1.08	0.963	2.42	1.73	2.72	3.55	7.64	4.49	8.15	8.46
7	2.52	1.75	1.05	0.922	2.82	1.62	3.90	3.24	9.89	4.44	9.58	8.10
8	2.45	1.64	0.990	0.928	3.36	1.58	30.2	52.5	11.5	4.21	11.8	7.68
9	2.33	1.50	1.01	0.985	1.89	1.71	6.57	14.2	8.57	6.58	25.5	7.28
10	2.26	1.44	1.00	1.06	1.56	5.75	4.57	7.01	6.32	14.6	10.4	11.5
11	2.19	1.40	0.945	1.16	2.22	5.18	7.50	39.6	5.92	8.13	83.5	8.11
12	2.13	1.37	0.934	0.947	1.77	2.71	7.40	17.1	5.33	9.49	22.3	6.67
13	2.08	1.34	0.910	0.902	1.40	2.79	13.3	8.51	5.03	16.8	14.3	7.58
14	2.06	1.36	0.903	0.869	1.27	4.45	9.50	6.70	7.31	9.50	11.4	6.94
15	2.02	1.40	0.910	0.956	1.85	4.43	5.69	7.32	9.27	14.0	9.91	10.0
16	1.97	1.45	0.894	0.843	1.50	4.02	4.71	8.41	6.38	7.42	8.88	8.51
17	1.93	1.38	0.921	0.802	1.24	2.62	4.45	7.43	5.27	6.22	8.28	6.60
18	1.92	1.26	1.02	1.02	1.68	2.27	3.89	10.8	4.86	5.65	8.77	5.93
19	1.97	1.42	0.928	0.905	4.16	2.24	4.10	6.73	4.86	5.43	9.30	5.55
20	1.96	1.22	0.881	0.994	2.29	6.23	3.67	5.56	6.06	5.00	8.78	5.26
21	2.00	1.22	0.885	0.952	1.80	8.62	5.60	5.18	5.26	4.69	40.9	5.07
22	1.76	1.20	0.858	0.925	1.59	3.77	4.37	4.86	5.30	4.53	128	4.94
23	1.78	1.18	0.858	0.833	1.64	4.87	3.55	4.96	4.48	4.50	51.0	4.86
24	1.66	1.15	3.20	9.83	1.34	7.67	3.21	8.86	4.39	4.71	40.5	4.78
25	1.75	1.17	2.55	3.72	1.22	5.12	2.95	7.41	5.95	5.49	29.0	5.21
26	2.02	1.20	1.38	5.08	1.40	18.8	11.5	5.74	4.67	4.83	26.8	4.58
27	1.89	1.20	1.18	3.21	55.1	7.63	11.8	6.08	4.40	4.63	17.7	5.43
28	2.26	1.12	2.98	2.07	7.44	4.92	10.1	4.87	4.10	11.4	24.1	4.59
29	2.07		3.75	1.55	7.21	3.45	7.05	4.59	4.14	17.0	19.0	4.28
30	1.78		1.77	1.24	5.95	2.95	5.08	4.90	9.28	7.08	16.5	4.21
31	1.76		1.38		4.22		4.16	6.06		6.22		4.07

		Caul	uales extitei	1103								
	Máximos	instantáneos		1	Mínimos diari	os		Caudales	promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m^3/s		m ³ /s	l/s/km ²		MMC	mm
Ene	4	31.08	5.25	24	30.85	1.66		2.14	18.3		5.73	49.0
Feb	5	31.11	5.95	28	30.80	1.12		1.47	12.5		3.55	30.3
Mar	28	31.17	7.19	22	30.78	0.858		1.31	11.2		3.52	30.1
Abr	24	32.41	61.1	17	30.77	0.802		1.64	14.0		4.24	36.3
May	27	36.21	347	4	30.79	1.01		4.06	34.7		10.9	92.8
Jun	26	33.65	138	8	30.85	1.58		4.29	36.6		11.1	95.0
Jul	8	33.67	139	3	30.92	2.50		6.39	54.6		17.1	146
Ago	11	35.33	269	7	30.97	3.24		9.07	77.5		24.3	208
Sep	1	33.53	129	28	31.02	4.10		7.10	60.7		18.4	157
Oct	10	32.50	66.0	8	31.03	4.21		7.67	65.5		20.5	176
Nov	11	36.35	361	5	31.13	6.30		24.0	205		62.2	531
Dic	10	32.03	41.9	31	31.02	4.07		7.14	61.0		19.1	163
Anual	11	36.35	361	17	30.77	0.802	Promedio	6.35	54.3	Total	201	1715



ESTACIÓN CIENTO EN EL RÍO GATÚN Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD 9º 17' 52" N LONGITUD 79º 43' 41" O Año: 2006 Área de Drenaje: 117 km² DIA **ENERO ABRIL FEBRERO MARZO** MAYO **JUNIO** mg/l t/d mg/l t/d mg/l t/d mg/l t/d mg/l t/d mg/l t/d 5.0 1.11 4.6 0.716 4.2 0.447 4.2 0.444 4.1 0.383 5.2 1.33 2 0.692 5.0 1.12 4.6 4.2 0.412 4.2 0.4224.1 0.3714.9 1.04 3 4.9 1.10 4.5 0.650 4.1 0.392 4.1 0.383 4.1 0.371 4.7 0.836 4 6.0 1.63 4.5 0.614 4.1 0.376 4.1 0.361 4.1 0.358 4.6 0.727 5 4.9 1.05 6.6 1.31 4.1 0.373 4.1 0.345 4.2 0.427 4.8 0.885 6 4.9 1.02 5.5 1.21 4.1 0.385 4.0 0.336 10.2 2.14 4.6 0.680 7 4.9 1.07 4.6 0.688 4.1 0.372 4.0 0.319 5.6 1.36 4.5 0.631 8 4.9 1.03 4.5 0.637 4.1 0.347 4.0 0.321 7.2 2.10 4.5 0.612 0.972 0.346 0.760 9 4.8 4.4 0.571 4.1 0.358 4.1 4.6 4.6 0.685 10 4.8 0.938 4.4 0.547 4.1 0.353 4.1 0.380 4.5 0.599 26.7 13.3 0.906 0.525 0.329 4.8 0.922 11 4.8 4.4 4.0 4.2 0.420 13.7 6.14 12 4.8 0.874 4.3 0.515 4.0 0.324 4.0 0.329 4.6 0.699 5.0 1.18 13 0.848 4.3 0.502 4.0 0.530 10.7 4.7 0.314 4.0 0.311 4.4 2.59 14 4.7 0.838 4.3 0.508 4.0 0.311 4.0 0.297 4.3 0.468 11.0 4.21 0.821 4.4 0.526 4.0 0.333 4.7 0.747 15 4.7 0.314 4.0 18.3 6.99 16 4.7 0.796 4.4 0.553 4.0 0.307 3.9 0.286 4.4 0.575 8.5 2.96 17 4.7 0.778 4.3 0.518 4.0 0.318 3.9 0.269 4.3 0.458 5.0 1.12 18 4.7 0.772 4.3 0.466 4.1 0.359 4.2 0.367 7.6 1.11 4.8 0.945 19 4.7 0.798 4.4 0.538 4.0 0.321 4.0 0.312 11.3 4.07 4.8 0.931 20 4.7 0.792 4.2 0.447 4.0 0.302 4.1 0.350 4.9 0.966 31.8 17.1 21 4.7 0.808 4.2 0.445 4.0 0.303 4.0 0.332 4.6 0.714 35.4 26.4 22 4.2 4.6 0.697 0.438 3.9 0.292 4.0 0.320 4.5 0.619 7.0 2.27 23 0.428 4.6 0.706 4.2 3.9 0.292 0.282 4.5 0.640 14.6 3.9 34.7 166.6 24 4.5 0.650 4.2 0.418 6.7 1.84 141 4.3 0.501 25.8 17 1 25 4.6 0.693 4.2 0.425 5.6 1.24 8.2 2.62 4.2 0.448 11.7 5.17 26 0.819 4.2 0.438 0.517 6.96 4.4 0.528 4.7 4.3 15.9 561.5 912 27 4.6 0.759 4.2 0.438 0.427 1.76 1019.7 4854 23.1 4.2 6.4 15.2 28 4.8 0.9394.2 0.404 9.6 2.46 4.7 0.846 22.1 14.2 10.5 4.45 29 4.7 0.843 8.1 2.64 4.5 0.596 30.5 19.0 6.1 1.80 30 4.6 0.706 4.6 0.699 4.3 0.457 15.7 8.06 5.1 1.30 31 4.6 0.695 4.3 0.517 12.0 4.36 Total 27.6 16.2 18.2 163 4923 1066 DÍA **JULIO AGOSTO** SEPTIEMBRE **OCTUBRE NOVIEMBRE DICIEMBRE** t/d mg/l t/d mg/l t/d t/d mg/l t/d mg/l mg/l t/d ma/l 2.49 1054 5.0 1.16 7.4 412.5 822 11.5 5.13 670.7 38.9 42.8 2 3.29 25.9 3.76 854 32.2 30.9 4.9 1.08 9.0 20.5 9.3 317.8 3 4.9 1.06 7.0 2.28 15.2 8.65 129.0 212 44.8 48.1 36.2 37.2 4 21.7 8.65 6.1 1.82 62.0 52.2 17.6 10.5 18.7 12.3 28.3 24.8 5 8.9 3.15 6.3 1.93 23.3 17.1 10.1 4.28 14.3 7.79 24.1 18.9 6 22.0 1.17 6.4 1.96 22.0 14.5 31.3 21.7 5.0 8.8 3.41 15.9 7 90.1 30.3 5.5 1.55 35.5 30.3 8.6 3.31 51.6 42.7 20.4 14.2 8 424.7 790.0 3585 53.5 2.92 151.4 154 18.9 1109 53.0 8.0 12.6 9 15.9 9.03 62.0 75.9 23.2 17.1 25.2 14.3 241.8 532 17.5 11.0 10 9.0 3.57 17.0 10.3 14.4 7.84 136.2 171 29.9 26.9 72.5 72.2 894.2 11 26.8 17.4 3058 13.4 6.88 22.6 15.9 1176.4 8487 21.0 14.7 12 20.4 13.0 80.4 118 11.2 5.18 54.6 44.8 90.5 174 15.5 8.92 13 131.3 151 22.3 16.4 10.3 4.48 93.8 136 46.6 57.6 19.4 12.7 32.8 14 28.0 23.0 15.6 9.03 26.4 16.7 27.2 22.4 33.3 16.4 9.86 15 12.5 6.12 20.9 13.2 34.3 27.5 59.1 71.6 27.2 23.3 42.3 36.6 16 9.5 3.84 25.4 18.4 14.8 8.14 18.1 11.6 23.3 17.9 22.3 16.4 17 8.7 3.36 18.3 11.8 11.0 5.03 14.0 7.53 21.1 15.1 15.3 8.71 18 7.3 2.45 9.9 5.97 17.6 6.69 62.2 58.1 4.14 12.2 23.2 13.1 19 7.8 2.77 15.9 9.26 9.9 4.14 11.5 5.40 26.6 21.4 11.9 5.70 20 6.7 2.11 11.9 5.74 16.4 8.59 10.3 4.43 24.8 18.8 11.0 5.01 729.5 21 3.79 2579 28.4 13.7 10.8 4.85 11.2 5.10 9.4 10.5 4.58 22 8.8 3.34 9.9 4.14 11.5 5.27 8.9 3.48 973.3 10723 10.1 4.29 23 6.3 1.94 10.5 4.52 8.8 3.39 8.9 3.44 293.3 1291 9.8 4.13 24 5.5 1.51 44.2 33.8 8.5 3.24 9.9 4.05 209.3 732 9.6 3.99 25 5.1 1.30 20.8 13.3 20.6 10.6 12.2 5.76 127.9 321 11.0 4.97 26 164.1 163 6.28 3.82 9.8 126.3 292 9.0 3.58 12.7 9.4 4.11 27 37.1 38.0 13.8 7.24 8.6 3.27 9.2 3.69 62.6 95.7 13.7 6.42 28 41.7 36.5 9.9 4.16 7.7 2.74 68.9 67.6 147.5 306 9.1 3.61 29 17.9 10.9 9.1 3.59 7.9 2.82 130.1 191 83.6 137 8.2 3.03 30 10.6 4.66 10.7 4.52 145.4 117 17.8 10.9 58.8 84.0 8.0 2.91 31 7.9 2.84 14.0 7.31 7.61 7.6 2.69 14.2 Total 1291 1670 7099 1062 28181 450 Producción Anual: 393 t/año/km² Total Anual: 45967 t/año Concentración de Sedimentos Suspendidos (mg/l) Mínimo Diario: 3.9 Promedio Anual: 229.4 Máximo Diario: 1176.4 1637.7

Máxima Instantánea

620 Escala 1:250,000 00009 776 00026 000166 Subcuenca del Río Trinidad Límite de la Cuenca del Canal de Panamá Subcuenca del río Trinidad Cuerpos de Agua Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental 385 - 541 542 - 721 722 - 972 973 - 2000 Localización Regional (hasta la estación Chorro) Sección de Manejo de Cuenca UNIDAD DE OPERACIONES Leyenda Estación Principales (Tipo A) Ríos principales Estación Pluviografica Fluviografica Altitudes (metros) 0 - 47 48 - 141 142 - 250 251 - 384 Estación

Estación El Chorro en el Río Trinidad





LOCALIZACIÓN: La estación está a 1.2 km (0.74 mi) aguas arriba del Puerto de Trinidad, cerca del poblado Los Chorros de Trinidad, en el distrito de Capira, provincia de Panamá. Sus coordenadas geográficas son: 8° 58' 32" de latitud Norte y 79° 59' 25" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-02-01

ÁREA DE DRENAJE: 174 km² (67 mi²)

PERIODO DE REGISTRO: Desde septiembre de 1947 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	Elevación máxima instantánea			máximo táneo	Elevació	on mínima	ı diaria		ıdal imo ırio	Cau prom ant	edio
día/mes	día/mes pie m		pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	111.16	33.88	16249	460	20/abr.	99.18	30.23	20.5	0.582	290	8.22

Cor	ncentración (mg/l)		Rendimiento líquido		n anual de nentos
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km²
922.1	1.8	216.0	47.2	55960	322

ESTACIÓN EL CHORRO EN EL RÍO TRINIDAD Caudales promedios diarios en pie³/s

Sensor 4811 Latitud 8° 58' 32" N Longitud 79° 59' 25" O Año: 2006

Àrea de drenaje: 67 mi² Elevación: 140 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	92.8	64.2	37.8	29.2	40.3	82.3	164	246	517	209	149	464
2	90.9	67.5	39.4	30.2	35.3	80.7	115	1077	839	192	150	488
3	90.3	62.5	37.2	28.7	33.0	91.0	107	431	695	210	203	417
4	88.2	57.8	38.0	29.4	56.0	329	1391	301	724	199	648	383
5	87.4	62.9	35.0	36.3	455	280	707	349	479	173	733	401
6	93.5	80.6	33.5	27.6	791	143	268	250	1831	163	419	351
7	107	59.9	33.8	26.1	169	178	200	216	794	157	438	324
8	116	54.7	33.2	25.6	111	180	449	400	896	180	371	300
9	96.8	51.9	31.1	24.1	124	268	286	225	553	157	429	295
10	85.9	50.6	29.9	25.4	96.6	154	196	196	438	215	362	402
11	83.8	49.6	29.3	60.5	216	212	231	286	435	167	428	952
12	81.5	50.3	28.6	32.3	238	137	215	443	352	177	571	640
13	78.7	50.5	27.5	29.5	102	115	459	226	311	203	330	825
14	75.6	49.8	26.7	25.5	76.2	107	268	199	325	258	271	1447
15	74.0	49.3	26.4	23.5	65.0	223	206	209	359	183	241	496
16	72.5	49.7	27.2	21.9	62.2	279	171	817	340	180	253	400
17	75.4	45.9	26.4	21.5	72.7	153	154	719	463	699	223	342
18	73.5	43.6	26.3	22.4	183	170	177	575	535	985	379	310
19	69.8	42.6	27.1	21.4	544	136	275	378	521	339	247	289
20	67.8	40.0	26.3	20.5	513	115	300	434	776	225	269	272
21	66.7	39.2	26.9	30.0	214	104	1179	329	461	185	8309	256
22	64.2	38.7	27.8	22.9	184	97.9	1373	250	466	165	4106	252
23	64.6	38.8	26.4	21.3	167	111	390	224	310	159	1675	247
24	65.9	37.3	25.8	32.7	114	221	292	215	274	186	1196	242
25	62.1	36.3	39.7	224	93.8	323	511	609	249	178	808	259
26	61.7	36.6	36.0	361	122	363	541	1244	230	194	732	252
27	62.5	38.5	30.3	115	214	306	512	819	218	243	865	358
28	72.0	38.4	93.1	163	119	168	757	395	226	214	729	243
29	66.1		59.7	94.2	110	133	809	312	282	225	600	226
30	63.3		36.6	49.9	96.1	140	509	380	285	219	542	211
31	62.5		30.8		82.6		321	627		167		201

		Ouu.	aaioo o,oi									
	Máximos	Instantáneos		N	/línimos Diari	os		Caudales	Promedios		Escori	entía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mer	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	8	100.14	135	26	99.68	61.7		77.8	1.16		4784	1.3
Feb	6	99.90	91.4	25	99.42	36.3		49.6	0.740		2753	8.0
Mar	28	100.25	159	24	99.27	25.8		34.0	0.507		2090	0.6
Abr	25	102.83	1528	20	99.18	20.5		55.8	0.834		3323	0.9
May	19	103.42	2026	3	99.38	33.0		177	2.65		10904	3.1
Jun	15	102.78	1489	2	99.83	80.7		180	2.69		10710	3.0
Jul	21	107.26	7925	3	99.99	107		437	6.52		26840	7.5
Ago	2	104.90	3712	10	100.39	196		432	6.44		26542	7.4
Sep	6	108.01	9514	27	100.47	218		506	7.55		30118	8.4
Oct	17	107.01	7379	7	100.24	157		239	3.57		14691	4.1
Nov	21	111.16	16249	1	100.21	149		889	13.3		52911	14.8
Dic	13	107.22	7836	31	100.41	201		405	6.04		24883	7.0
Anual	21	111.16	16249	20	99.18	20.5	Promedio	290	4.33	Total	210550	58.9

ESTACIÓN EL CHORRO EN EL RÍO TRINIDAD Caudales promedios diarios en m³/s

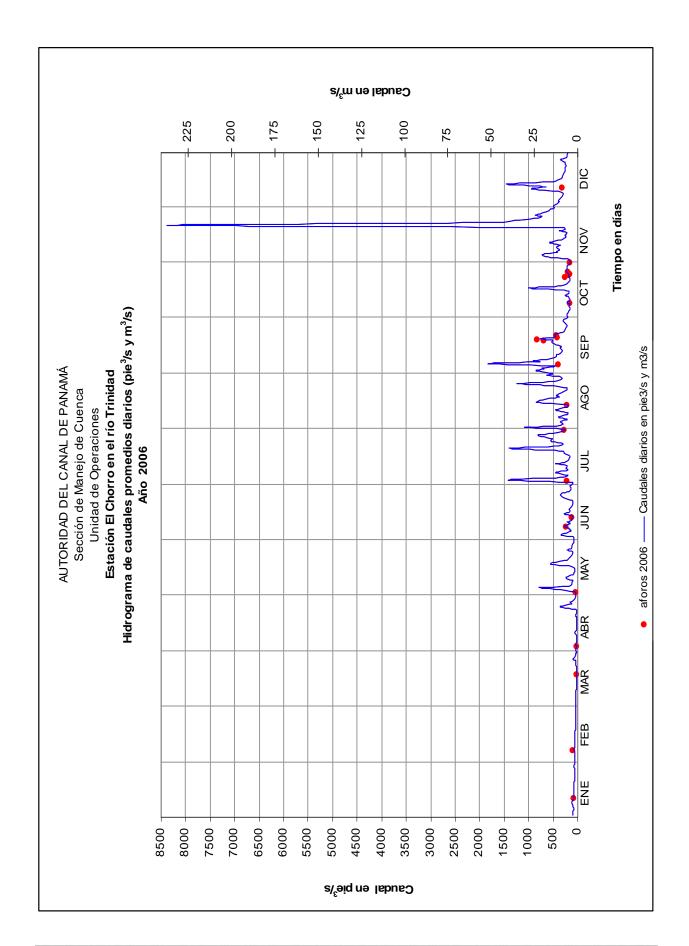
Sensor 4811 Latitud 8° 58' 32" N Longitud 79° 59' 25" O Año: 2006

Årea de drenaje:174 km²

Elevación: 43 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	2.63	1.82	1.07	0.828	1.14	2.33	4.63	6.98	14.6	5.92	4.22	13.1
2	2.58	1.91	1.12	0.855	1.00	2.28	3.26	30.5	23.8	5.44	4.25	13.8
3	2.56	1.77	1.05	0.812	0.934	2.58	3.03	12.2	19.7	5.95	5.74	11.8
4	2.50	1.64	1.08	0.834	1.59	9.31	39.4	8.51	20.5	5.64	18.3	10.8
5	2.47	1.78	0.990	1.03	12.9	7.93	20.0	9.87	13.6	4.90	20.7	11.4
6	2.65	2.28	0.948	0.782	22.4	4.04	7.60	7.09	51.8	4.61	11.9	9.94
7	3.02	1.70	0.958	0.738	4.78	5.03	5.68	6.11	22.5	4.44	12.4	9.18
8	3.28	1.55	0.940	0.724	3.14	5.11	12.7	11.3	25.4	5.11	10.5	8.51
9	2.74	1.47	0.882	0.683	3.51	7.59	8.10	6.39	15.7	4.46	12.1	8.34
10	2.43	1.43	0.847	0.720	2.74	4.37	5.54	5.54	12.4	6.08	10.3	11.4
11	2.37	1.41	0.831	1.71	6.12	6.01	6.56	8.10	12.3	4.72	12.1	27.0
12	2.31	1.42	0.810	0.915	6.75	3.89	6.09	12.6	9.97	5.00	16.2	18.1
13	2.23	1.43	0.779	0.836	2.88	3.24	13.0	6.39	8.81	5.75	9.36	23.4
14	2.14	1.41	0.757	0.723	2.16	3.04	7.59	5.63	9.21	7.32	7.66	41.0
15	2.10	1.40	0.747	0.665	1.84	6.32	5.83	5.92	10.2	5.17	6.82	14.0
16	2.05	1.41	0.772	0.620	1.76	7.90	4.84	23.1	9.64	5.09	7.17	11.3
17	2.13	1.30	0.749	0.608	2.06	4.34	4.37	20.4	13.1	19.8	6.33	9.68
18	2.08	1.24	0.744	0.633	5.17	4.82	5.00	16.3	15.1	27.9	10.7	8.78
19	1.98	1.21	0.767	0.606	15.4	3.86	7.79	10.7	14.7	9.61	7.00	8.19
20	1.92	1.13	0.744	0.582	14.5	3.25	8.50	12.3	22.0	6.38	7.61	7.71
21	1.89	1.11	0.762	0.848	6.06	2.94	33.4	9.31	13.1	5.25	235	7.26
22	1.82	1.10	0.787	0.648	5.20	2.77	38.9	7.08	13.2	4.68	116	7.14
23	1.83	1.10	0.749	0.604	4.73	3.13	11.0	6.36	8.79	4.51	47.4	7.01
24	1.87	1.06	0.731	0.925	3.23	6.25	8.28	6.08	7.75	5.27	33.9	6.86
25	1.76	1.03	1.12	6.33	2.66	9.15	14.5	17.2	7.05	5.05	22.9	7.33
26	1.75	1.04	1.02	10.2	3.45	10.3	15.3	35.2	6.50	5.48	20.7	7.13
27	1.77	1.09	0.859	3.25	6.05	8.68	14.5	23.2	6.17	6.89	24.5	10.1
28	2.04	1.09	2.64	4.63	3.36	4.75	21.4	11.2	6.41	6.07	20.6	6.87
29	1.87		1.69	2.67	3.11	3.76	22.9	8.85	8.00	6.37	17.0	6.40
30	1.79		1.04	1.41	2.72	3.97	14.4	10.8	8.08	6.19	15.3	5.97
31	1.77		0.873		2.34		9.10	17.8		4.72		5.71

		Cau	daics chirci	1100								
	Máximos	instantáneos		1	Mínimos diari	os		Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		m	m ³ /s		m	m ³ /s		m ³ /s	l/s/km ²		MMC	mm
Ene	8	30.52	3.82	26	30.38	1.75		2.20	12.7		5.90	33.9
Feb	6	30.45	2.59	25	30.30	1.03		1.40	8.07		3.40	19.5
Mar	28	30.56	4.51	24	30.26	0.731		0.963	5.53		2.58	14.8
Abr	25	31.34	43.3	20	30.23	0.582		1.58	9.09		4.10	23.6
May	19	31.52	57.4	3	30.29	0.934		5.02	28.9		13.5	77.3
Jun	15	31.33	42.2	2	30.43	2.28		5.10	29.3		13.2	75.9
Jul	21	32.69	224	3	30.48	3.03		12.4	71.0		33.1	190
Ago	2	31.97	105	10	30.60	5.54		12.2	70.3		32.7	188
Sep	6	32.92	269	27	30.62	6.17		14.3	82.4		37.2	214
Oct	17	32.62	209	7	30.55	4.44		6.77	38.9		18.1	104
Nov	21	33.88	460	1	30.54	4.22		25.2	145		65.3	375
Dic	13	32.68	222	31	30.61	5.71		11.5	65.9		30.7	176
Anual	21	33.88	460	20	30.23	0.582	Promedio	8.22	47.2	Total	260	1493



ESTACIÓN EL CHORRO EN EL RÍO TRINIDAD

Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD	8º 58' 32"	N I	LONGITU	D 79º 59'	25" O	Año:	2006	A	Área de D	renaje:	174 k	m²
DÍA	EN	ERO	FEB	RERO	M	ARZO	A	3RIL	M	AYO	JL	JNIO
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1 2	4.5 4.4	1.03 0.975	2.9	0.454 0.490	2.3 2.3	0.212 0.225	2.0 2.1	0.147 0.153	2.4 2.2	0.232 0.192	3.8 3.6	0.760 0.719
3	4.4	0.975	3.0 2.9	0.490	2.3	0.225	2.1	0.133	2.2	0.192	3.6 4.8	1.07
4	4.2	0.901	2.8	0.390	2.3	0.214	2.1	0.149	4.3	0.595	129.4	104
5	4.1	0.880	2.9	0.447	2.2	0.190	2.3	0.201	308.4	343	35.6	24.4
6	4.6	1.05	3.7	0.726	2.2	0.178	2.0	0.135	183.6	355	9.6	3.37
7	5.6	1.47	2.8	0.411	2.2	0.181	1.9	0.124	12.6	5.22	41.5	18.0
8	6.4	1.82	2.7	0.360	2.2	0.176	1.9	0.121	6.1	1.66	15.9	7.01
9 10	4.9 4.0	1.15 0.844	2.6 2.6	0.334 0.322	2.1 2.1	0.160 0.151	1.9 1.9	0.111 0.120	7.6 4.9	2.29 1.16	33.3 10.3	21.9 3.87
11	3.9	0.791	2.6	0.322	2.1	0.131	4.0	0.592	148.9	78.7	17.5	9.06
12	3.7	0.738	2.6	0.319	2.0	0.142	2.1	0.169	28.0	16.3	8.4	2.81
13	3.5	0.674	2.6	0.321	2.0	0.134	2.1	0.149	5.3	1.32	6.3	1.76
14	3.3	0.609	2.6	0.314	2.0	0.129	1.9	0.121	3.4	0.627	5.7	1.49
15	3.2	0.576	2.6	0.310	2.0	0.126	1.9	0.107	2.9	0.461	127.0	69.4
16 17	3.1 3.3	0.549 0.606	2.6 2.5	0.314 0.280	2.0 2.0	0.133 0.127	1.8 1.8	0.097 0.094	2.8 3.2	0.434 0.564	35.2 10.2	24.0 3.81
18	3.2	0.567	2.4	0.260	2.0	0.127	1.8	0.100	64.9	29.0	11.9	4.96
19	3.0	0.512	2.4	0.252	2.0	0.131	1.8	0.094	195.0	260	8.3	2.76
20	3.0	0.490	2.3	0.230	2.0	0.126	1.8	0.088	123.3	155	6.3	1.77
21	2.9	0.479	2.3	0.224	2.0	0.130	2.1	0.152	18.5	9.68	5.4	1.36
22	2.9	0.453	2.3	0.219	2.0	0.136	1.8	0.103	20.1	9.01	4.9	1.18
23 24	2.9 2.9	0.458 0.471	2.3 2.3	0.220 0.208	2.0 1.9	0.127 0.123	1.8 2.2	0.093 0.179	12.3 6.3	5.01 1.75	17.6 23.8	4.75 12.8
25	2.8	0.471	2.3	0.200	2.3	0.123	134.4	73.5	4.6	1.06	50.2	39.7
26	2.8	0.428	2.3	0.202	2.2	0.198	100.4	88.7	22.4	6.68	61.5	54.6
27	2.9	0.436	2.3	0.218	2.1	0.155	7.8	2.18	19.4	10.2	38.1	28.6
28	3.1	0.549	2.3	0.217	6.2	1.41	52.4	21.0	6.7	1.94	11.4	4.68
29	2.9	0.473			3.0	0.444	5.6	1.30	6.1	1.65	7.9	2.57
30 31	2.9 2.9	0.444 0.436			2.3 2.1	0.202 0.158	2.6	0.316	4.8 3.8	1.13 0.764	10.0	3.45
Total	2.9	22.2		8.99	2.1	6.53		191	3.0	1301		461
· otal				0.00		0.00						
DIA	JULI ma/l		AGOS mg/l		SEPTIEN mg/l		OCTUE mg/l		NOVIEN mg/l		DICIEM mg/l	
DIA 1	JULI mg/l 12.8	O t/d 5.14	AGOS mg/l 20.6	t/d 12.5	SEPTIEN mg/l 74.0	VIBRE t/d 93.5	OCTUE mg/l 15.9	3RE t/d 8.15	NOVIEN mg/l 9.4	1BRE t/d 3.44	DICIEM mg/l 55.3	BRE t/d 62.7
1 2	mg/l 12.8 6.3	t/d 5.14 1.78	mg/l 20.6 401.7	t/d 12.5 1059	mg/l 74.0 314.8	t/d 93.5 646	mg/l 15.9 13.9	t/d 8.15 6.55	mg/l 9.4 9.5	t/d 3.44 3.50	mg/l 55.3 61.8	t/d 62.7 73.8
1 2 3	mg/l 12.8 6.3 9.3	t/d 5.14 1.78 2.43	mg/l 20.6 401.7 51.4	t/d 12.5 1059 54.2	mg/l 74.0 314.8 125.2	t/d 93.5 646 213	mg/l 15.9 13.9 16.5	t/d 8.15 6.55 8.48	mg/l 9.4 9.5 47.3	t/d 3.44 3.50 23.4	mg/l 55.3 61.8 46.5	t/d 62.7 73.8 47.5
1 2 3 4	mg/l 12.8 6.3 9.3 525.2	t/d 5.14 1.78 2.43 1788	mg/l 20.6 401.7 51.4 28.3	t/d 12.5 1059 54.2 20.8	mg/l 74.0 314.8 125.2 145.1	t/d 93.5 646 213 257	mg/l 15.9 13.9 16.5 15.0	t/d 8.15 6.55 8.48 7.32	mg/l 9.4 9.5 47.3 515.6	t/d 3.44 3.50 23.4 817	mg/l 55.3 61.8 46.5 40.6	t/d 62.7 73.8 47.5 38.0
1 2 3 4 5	mg/l 12.8 6.3 9.3 525.2 187.6	t/d 5.14 1.78 2.43 1788 325	mg/l 20.6 401.7 51.4 28.3 42.0	t/d 12.5 1059 54.2 20.8 35.9	mg/l 74.0 314.8 125.2 145.1 60.0	t/d 93.5 646 213 257 70.4	mg/l 15.9 13.9 16.5 15.0 11.9	t/d 8.15 6.55 8.48 7.32 5.02	mg/l 9.4 9.5 47.3 515.6 264.3	t/d 3.44 3.50 23.4 817 474	mg/l 55.3 61.8 46.5 40.6 44.2	t/d 62.7 73.8 47.5 38.0 43.4
1 2 3 4 5 6	mg/l 12.8 6.3 9.3 525.2	t/d 5.14 1.78 2.43 1788 325 15.8	mg/l 20.6 401.7 51.4 28.3 42.0 21.2	t/d 12.5 1059 54.2 20.8 35.9 13.0	mg/l 74.0 314.8 125.2 145.1 60.0 586.6	### 15 ### 15	mg/l 15.9 13.9 16.5 15.0	t/d 8.15 6.55 8.48 7.32 5.02 4.30	mg/l 9.4 9.5 47.3 515.6	t/d 3.44 3.50 23.4 817 474 95.6	mg/l 55.3 61.8 46.5 40.6 44.2 35.6	t/d 62.7 73.8 47.5 38.0 43.4 30.6
1 2 3 4 5	mg/l 12.8 6.3 9.3 525.2 187.6 24.1	t/d 5.14 1.78 2.43 1788 325	mg/l 20.6 401.7 51.4 28.3 42.0	t/d 12.5 1059 54.2 20.8 35.9	mg/l 74.0 314.8 125.2 145.1 60.0	t/d 93.5 646 213 257 70.4	mg/l 15.9 13.9 16.5 15.0 11.9	t/d 8.15 6.55 8.48 7.32 5.02	mg/l 9.4 9.5 47.3 515.6 264.3 93.4	t/d 3.44 3.50 23.4 817 474	mg/l 55.3 61.8 46.5 40.6 44.2	t/d 62.7 73.8 47.5 38.0 43.4
1 2 3 4 5 6 7 8 9	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5	t/d 5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0	t/d 12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4	1/d 93.5 646 213 257 70.4 2628 396 470 99.4	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3	**t/d** 8.15 6.55 8.48 7.32 5.02 4.30 3.92 6.08 3.97	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1	t/d 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1
1 2 3 4 5 6 7 8 9	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4	t/d 5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4	t/d 12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6	**t/d** 8.15 6.55 8.48 7.32 5.02 4.30 3.92 6.08 3.97 15.5	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1	**t/d** 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5
1 2 3 4 5 6 7 8 9 10	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8	1/d 5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3	t/d 12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3	**t/d** 8.15 6.55 8.48 7.32 5.02 4.30 3.92 6.08 3.97 15.5 4.59	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8	**t/d** 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8	t/d 5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4	**t/d** 8.15 6.55 8.48 7.32 5.02 4.30 3.92 6.08 3.97 15.5 4.59 5.37	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1	**t/d** 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5	**t/d** 8.15 6.55 8.48 7.32 5.02 4.30 3.92 6.08 3.97 15.5 4.59 5.37 8.21	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4	### 123 ### 123	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9 395.3	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8	t/d 5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4	**Mathematical Representation of the second state of the second st	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1	**t/d** 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2	1/d 12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7	**Mathematical Representation of the second state of the second st	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3	**Mathematical Representation of the second state of the second st	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2	### 15.1 P.94	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.7 514.3 288.7	**Mathematical Representation of the state o	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0	**Mathematical Representation of the second state of the second st	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.7 514.3 288.7	**Mathematical Representation of the state o	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3	#d 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 5.36 58.4 28.2 1710 1271	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0	**Mathematical Property of the state of the	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 88.1 88.1 643.0	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 234.2 21.0 17.8	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4	### 15	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 28.1 81.1 83.1 84.2 129.6 21.1 24.3 24.4 25.1 26.1 26.1 26.1 26.1 27.1 27.1 28.1	### 120 12.8 18.5 16.90 18.5 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0 17.8 16.6	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4	**Mathematical Property of the state of the	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 83.1.6 643.0 440.1 262.9	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0 17.8 16.6 291.9	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7	**Mathematical Property of the state of the	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 831.6 643.0 410.1 262.9 129.7	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9	5.14 1.78 2.43 1788 3.25 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0 17.8 16.6 291.9 353.8	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7 10.3	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2	**Mathematical Property of the state of the	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 831.6 643.0 410.1 262.9 129.7 114.4	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256 205	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0 17.8 16.6 291.9	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7	**Mathematical Property of the state of the	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 831.6 643.0 410.1 262.9 129.7	### 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9 76.3 302.5 169.5	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116 95.5 560 335	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 234.0 17.8 16.6 291.9 353.8 181.9 43.4 29.7	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435 1077 364 42.0 22.7	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4 17.0 18.2 41.1	## 150 min style ## 150 min st	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2 23.4 18.1 19.5	## 15	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 28.1 1.3 3.1 4.1 24.2 129.6 21.1 28.1 21.1 28.1 21.1 28.1 29.1 21.1 2	## 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256 205 567 233 142	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8 41.3 20.1 17.9	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4 36.2 11.9 9.92
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9 76.3 302.5 169.5 72.8	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116 95.5 560 335 90.7	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 21.0 17.8 16.6 291.9 353.8 181.9 43.4 29.7 63.9	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435 1077 364 42.0 22.7 59.4	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4 17.0 18.2	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7 10.3 9.04 10.1	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2 23.4 18.1 19.5 31.2	**Mathematical Programma	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 831.6 643.0 410.1 262.9 129.7 114.4 267.8 130.6	### 120 12.8 18.5 16.90 18.5 18.5 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.5 16.90 18.6 18.7 19.94 19.94 19.94 19.94 19.94 19.95	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8 41.3 20.1 17.9 16.1	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4 36.2 11.9 9.92 8.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9 76.3 302.5 169.5	5.14 1.78 2.43 1788 3.25 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116 95.5 560 335 90.7 25.1	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 234.0 17.8 16.6 291.9 353.8 181.9 43.4 29.7	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435 1077 364 42.0 22.7 59.4 415	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4 17.0 18.2 41.1	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7 10.3 9.04 10.1 28.4 20.2	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2 23.4 18.1 19.5	**Mathematical Programma	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 28.1 1.3 3.1 4.1 24.2 129.6 21.1 28.1 21.1 28.1 21.1 28.1 29.1 21.1 2	## 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256 205 567 233 142 95.0	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8 41.3 20.1 17.9	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4 36.2 11.9 9.92 8.29 7.40
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9 76.3 302.5 169.5 72.8 32.0	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116 95.5 560 335 90.7 25.1 7006	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 21.0 17.8 16.6 291.9 353.8 181.9 43.4 29.7 63.9 270.4	12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435 1077 364 42.0 22.7 59.4	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4 17.0 18.2 41.1	t/d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7 10.3 9.04 10.1 28.4 20.2	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2 23.4 18.1 19.5 31.2 11.2	## 15	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 28.1 1.3 3.1 4.1 24.2 129.6 21.1 28.1 21.1 28.1 21.1 28.1 29.1 21.1 2	## 140 ## 3.44 ## 3.50 ## 23.4 ## 817 ## 474 ## 95.6 ## 92.7 ## 95.6 ## 92.7 ## 95.6 ## 95.0 ## 120 ##	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8 41.3 20.1 17.9 16.1 15.0	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4 36.2 11.9 9.92 8.29
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 12.8 6.3 9.3 525.2 187.6 24.1 15.0 161.8 28.5 14.4 19.8 44.8 62.4 23.5 15.7 11.6 9.9 12.4 86.8 38.4 592.9 378.5 43.3 26.9 130.8 87.9 76.3 302.5 169.5 72.8	5.14 1.78 2.43 1788 325 15.8 7.34 178 19.9 6.91 11.2 23.6 70.0 15.4 7.88 4.86 3.76 5.36 58.4 28.2 1710 1271 41.3 19.2 164 116 95.5 560 335 90.7 25.1 7006	mg/l 20.6 401.7 51.4 28.3 42.0 21.2 16.7 86.1 18.0 14.4 46.3 93.4 18.0 14.7 16.0 344.2 177.3 84.5 42.1 105.2 34.2 21.0 17.8 16.6 291.9 353.8 181.9 43.4 29.7 63.9 270.4	1/d 12.5 1059 54.2 20.8 35.9 13.0 8.82 84.2 9.94 6.89 32.4 101 10.0 7.16 8.18 688 312 119 39.0 112 27.5 12.9 9.75 8.69 435 1077 364 42.0 22.7 59.4 415 5207	mg/l 74.0 314.8 125.2 145.1 60.0 586.6 203.7 214.7 73.4 52.5 52.6 35.7 29.5 32.8 61.8 37.6 196.2 80.6 118.5 209.0 57.7 67.6 29.5 24.2 20.9 18.4 17.0 18.2 41.1	#d 93.5 646 213 257 70.4 2628 396 470 99.4 56.3 56.0 30.8 22.5 26.1 54.2 31.3 222 105 151 397 65.0 77.1 22.4 16.2 12.7 10.3 9.04 10.1 28.4 20.2	mg/l 15.9 13.9 16.5 15.0 11.9 10.8 10.2 13.8 10.3 29.6 11.3 12.4 16.5 24.3 12.9 12.7 514.3 288.7 36.0 18.1 13.2 11.0 10.4 14.4 12.7 17.2 23.4 18.1 19.5 31.2 11.2	**Mathematical Programma	mg/l 9.4 9.5 47.3 515.6 264.3 93.4 86.4 51.7 62.1 71.1 57.8 88.1 33.4 23.8 19.9 24.4 18.2 129.6 21.1 28.1 831.6 643.0 410.1 262.9 114.4 267.8 130.6 96.5 71.7	## 3.44 3.50 23.4 817 474 95.6 92.7 46.9 65.1 63.0 60.5 123 27.0 15.7 11.7 15.1 9.94 120 12.8 18.5 16905 6460 1681 769 256 205 567 233 142 95.0	mg/l 55.3 61.8 46.5 40.6 44.2 35.6 31.4 27.9 52.3 394.7 134.9 395.3 432.9 61.6 43.9 34.1 29.3 26.3 23.9 21.8 21.2 20.6 20.0 23.7 21.8 41.3 20.1 17.9 16.1 15.0	## 62.7 73.8 47.5 38.0 43.4 30.6 24.9 20.5 20.1 51.5 919 211 798 1532 74.7 43.0 28.5 22.2 18.6 16.0 13.7 13.1 12.5 11.8 15.0 13.4 36.2 11.9 9.92 8.29 7.40

Mínimo Diario:

Máximo Diario:

1.8

831.6

Promedio Anual:

Máxima Instantánea

216.0

922.1

62000 620 Escala 1:250,000 2.5 ം 009 000166 000446 00026 Subcuenca del Río Cirí Grande Subcuenca del río Cirí Grande Límite de la Cuenca del Canal de Panamá Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Cuerpos de Agua (hasta la estación Los Cañones) Localización Regional 385 - 541 542 - 721 722 - 972 973 - 2000 Sección de Manejo de Cuenca UNIDAD DE OPERACIONES Leyenda Principales (Tipo A) Estación Fluviografica Estación Pluviografica Río principal Altitudes (metros) 0 - 47 48 - 141 142 - 250 251 - 384 Estación

Estación Los Cañones en el Río Cirí Grande





LOCALIZACIÓN: La estación está a 3.2 km (2 mi) aguas arriba del poblado Los Chorros de Cirí, en la provincia de Panamá, distrito de Capira. Sus coordenadas geográficas son: 8° 56' 56" de latitud Norte y 80° 03' 45" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-08-01

ÁREA DE DRENAJE: 186 km² (72 mi²)

PERIODO DE REGISTRO: Desde septiembre de 1947 hasta 1959, julio de 1978 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Cau máx instan	imo	Elevacio	ón mínima	a diaria		ıdal imo ırio	Cau prom ant	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	21/nov. 360.95 110.02		13199	1		332.91	101.47	27.2	0.772	398	11.3

Cor	ncentración (mg/l)		Rendimiento líquido	Producció sedim	n anual de ientos
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km ²
1304.2	4.2	222.1	60.6	78992	425

ESTACIÓN LOS CAÑONES EN EL RÍO CIRÍ GRANDE Caudales promedios diarios en pie³/s

Sensor 2111 Latitud 8° 56' 56" N Longitud 80° 03' 45" O Año: 2006

Area de drenaje:72 mi² Elevación: 340 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	106	108	73.4	46.5	66.9	168	189	319	795	306	217	948
2	102	131	66.5	45.8	58.3	163	155	1935	983	297	214	852
3	97.2	105	72.8	41.0	55.2	230	145	566	1354	370	262	718
4	101	97.2	67.2	38.9	61.0	412	811	426	1820	308	340	671
5	108	125	59.9	47.3	101	301	675	854	772	285	829	676
6	122	159	56.3	39.9	444	198	281	455	1967	260	704	666
7	143	101	55.7	44.4	197	186	236	367	1214	250	989	605
8	292	95.0	54.4	41.1	210	193	581	679	1848	256	563	518
9	211	88.7	49.7	38.7	289	195	400	381	853	241	414	490
10	153	87.5	45.0	48.8	133	191	296	329	614	273	680	464
11	139	83.7	43.5	54.6	160	211	356	475	556	252	693	730
12	129	83.2	41.8	63.5	336	157	317	532	500	414	587	592
13	122	85.6	40.1	45.4	133	145	388	341	456	328	435	635
14	118	85.1	39.4	37.3	110	144	342	308	499	352	415	1783
15	115	86.4	38.5	35.2	100	205	290	328	457	294	368	589
16	113	77.5	37.4	33.3	91.9	289	257	1247	414	254	325	476
17	124	73.1	36.2	30.4	107	184	238	772	534	401	678	408
18	116	70.2	35.8	29.0	111	180	463	711	534	517	561	374
19	116	69.5	35.8	30.2	370	224	624	505	767	298	429	349
20	111	67.9	35.1	29.0	347	164	492	1128	993	247	557	327
21	104	65.7	38.1	29.0	210	146	533	752	559	226	8394	309
22	103	65.5	35.3	28.2	479	144	1302	454	475	212	8537	295
23	107	64.0	33.4	27.2	328	177	466	398	404	206	2971	302
24	102	62.9	38.6	95.6	210	379	363	404	371	232	1939	319
25	97.1	61.8	63.2	257	161	345	345	1525	348	240	1503	410
26	97.1	65.9	52.2	434	186	374	524	1604	329	257	1337	377
27	98.2	68.6	38.9	172	283	271	521	957	322	973	1181	623
28	120	63.8	215	107	183	209	739	644	365	472	1167	355
29	122		90.8	143	156	188	591	524	491	324	915	301
30	100		59.8	83.2	146	208	465	696	379	253	870	273
31	101		49.6		128		391	1002		240		258

Caudal	^^	ov4	ron	
Caudai	es	ext	ren	าดร

		Odde	Juliou Onli O	1100								
	Máximos	Instantáneos	3	N	Mínimos Diari	os	(Caudales	Promedios		Escori	rentía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Men pie ³ /s	suales pie ³ /s/mi ²		Acre-pie	plg
Ene	8	334.87	555	25	333.27	97.1		122	1.70		7519	2.0
Feb	6	333.80	229	25	333.10	61.8		85.6	1.19		4756	1.2
Mar	28	335.01	612	23	332.95	33.4		54.8	0.761		3370	0.9
Abr	26	337.45	1551	23	332.91	27.2		73.2	1.02		4358	1.1
May	22	336.79	1299	3	333.07	55.2		192	2.67		11803	3.1
Jun	25	336.16	1052	22	333.47	144		219	3.05		13054	3.4
Jul	22	341.56	3259	3	333.48	145		444	6.17		27329	7.1
Ago	25	345.74	5185	14	334.07	308		697	9.69		42878	11.2
Sep	6	347.51	6045	27	334.12	322		732	10.2		43582	11.3
Oct	27	342.26	3570	23	333.71	206		317	4.41		19509	5.1
Nov	21	360.95	13199	2	333.74	214		1302	18.1		77499	20.2
Dic	14	345.42	5033	31	333.90	258		539	7.48		33116	8.6
Anual	21	360.95	13199	23	332.91	27.2	Promedio	398	5.53	Total	288774	75.2

ESTACIÓN LOS CAÑONES EN EL RÍO CIRÍ GRANDE Caudales promedios diarios en m³/s

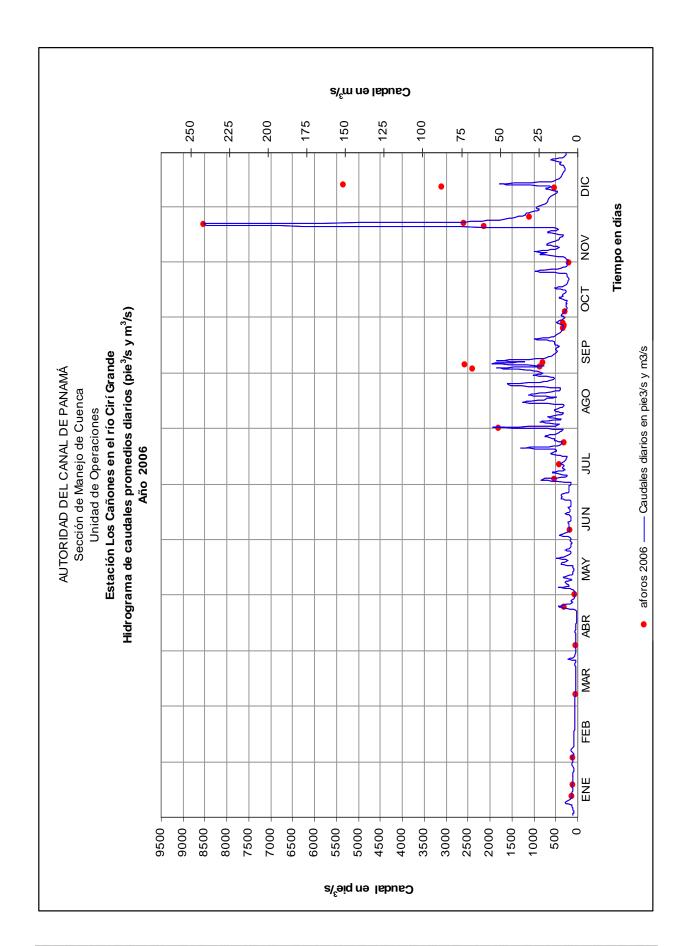
Sensor 2111 Latitud 8° 56' 56" N Longitud 80° 03' 45" O Año: 2006

Area de drenaje:186 km²

Elevación: 104 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ост	NOV	DIC
1	3.01	3.05	2.08	1.32	1.90	4.76	5.36	9.04	22.5	8.67	6.13	26.8
2	2.90	3.70	1.88	1.30	1.65	4.63	4.40	54.8	27.8	8.41	6.05	24.1
3	2.75	2.97	2.06	1.16	1.56	6.53	4.11	16.0	38.3	10.5	7.42	20.3
4	2.87	2.75	1.90	1.10	1.73	11.7	23.0	12.1	51.5	8.73	9.62	19.0
5	3.07	3.55	1.70	1.34	2.85	8.51	19.1	24.2	21.9	8.06	23.5	19.2
6	3.45	4.50	1.59	1.13	12.6	5.61	7.96	12.9	55.7	7.37	19.9	18.9
7	4.04	2.86	1.58	1.26	5.57	5.28	6.67	10.4	34.4	7.07	28.0	17.1
8	8.28	2.69	1.54	1.16	5.95	5.46	16.5	19.2	52.3	7.26	15.9	14.7
9	5.97	2.51	1.41	1.10	8.19	5.53	11.3	10.8	24.2	6.81	11.7	13.9
10	4.33	2.48	1.28	1.38	3.77	5.41	8.39	9.32	17.4	7.73	19.3	13.1
11	3.95	2.37	1.23	1.55	4.53	5.97	10.1	13.5	15.7	7.13	19.6	20.7
12	3.65	2.36	1.18	1.80	9.52	4.44	8.96	15.1	14.2	11.7	16.6	16.8
13	3.45	2.43	1.14	1.29	3.76	4.11	11.0	9.67	12.9	9.28	12.3	18.0
14	3.34	2.41	1.12	1.06	3.11	4.09	9.70	8.71	14.1	10.0	11.8	50.5
15	3.26	2.45	1.09	1.00	2.83	5.80	8.23	9.28	12.9	8.32	10.4	16.7
16	3.21	2.20	1.06	0.942	2.60	8.19	7.28	35.3	11.7	7.21	9.22	13.5
17	3.52	2.07	1.03	0.861	3.04	5.20	6.73	21.8	15.1	11.4	19.2	11.6
18	3.27	1.99	1.01	0.822	3.14	5.10	13.1	20.1	15.1	14.6	15.9	10.6
19	3.30	1.97	1.01	0.856	10.5	6.34	17.7	14.3	21.7	8.45	12.2	9.89
20	3.14	1.92	0.993	0.822	9.83	4.63	13.9	31.9	28.1	6.98	15.8	9.26
21	2.95	1.86	1.08	0.822	5.93	4.14	15.1	21.3	15.8	6.40	238	8.75
22	2.90	1.86	1.00	0.798	13.6	4.08	36.9	12.9	13.5	5.99	242	8.35
23	3.04	1.81	0.945	0.772	9.30	5.01	13.2	11.3	11.4	5.83	84.1	8.56
24	2.89	1.78	1.09	2.71	5.94	10.7	10.3	11.4	10.5	6.58	54.9	9.04
25	2.75	1.75	1.79	7.28	4.57	9.78	9.77	43.2	9.85	6.78	42.6	11.6
26	2.75	1.87	1.48	12.3	5.28	10.6	14.8	45.4	9.32	7.27	37.9	10.7
27	2.78	1.94	1.10	4.86	8.02	7.67	14.8	27.1	9.13	27.6	33.4	17.7
28	3.40	1.81	6.09	3.04	5.18	5.91	20.9	18.2	10.3	13.4	33.0	10.1
29	3.44		2.57	4.06	4.42	5.33	16.7	14.9	13.9	9.17	25.9	8.51
30	2.84		1.69	2.36	4.12	5.90	13.2	19.7	10.7	7.15	24.6	7.75
31	2.85		1.41		3.64		11.1	28.4		6.79		7.30

	Máximos instantáneos		S	N	Mínimos diari	os	Caudales promedio			os Escorrentía		rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal			suales			
		m	m ³ /s		m	m³/s		m ³ /s	l/s/km ²		MMC	mm
Ene	8	102.07	15.7	25	101.58	2.75		3.46	18.6		9.28	49.9
Feb	6	101.74	6.50	25	101.53	1.75		2.43	13.0		5.87	31.5
Mar	28	102.11	17.3	23	101.48	0.945		1.55	8.35		4.16	22.4
Abr	26	102.85	43.9	23	101.47	0.772		2.07	11.2		5.38	28.9
May	22	102.65	36.8	3	101.52	1.56		5.44	29.2		14.6	78.3
Jun	25	102.46	29.8	22	101.64	4.08		6.21	33.4		16.1	86.6
Jul	22	104.11	92.3	3	101.64	4.11		12.6	67.7		33.7	181
Ago	25	105.38	147	14	101.83	8.71		19.7	106		52.9	284
Sep	6	105.92	171	27	101.84	9.13		20.7	112		53.8	289
Oct	27	104.32	101	23	101.72	5.83		8.99	48.3		24.1	129
Nov	21	110.02	374	2	101.72	6.05		36.9	198		95.6	514
Dic	14	105.28	143	31	101.77	7.30		15.3	82.0		40.9	220
Anual	21	110.02	374	23	101.47	0.772	Promedio	11.3	60.6	Total	356	1915



ESTACIÓN LOS CAÑONES EN EL RÍO CIRI GRANDE Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

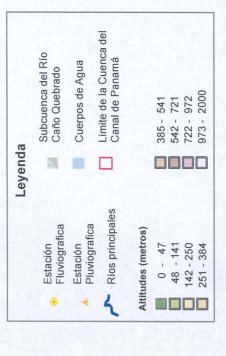
LATITUI	D 8º 56' 56"	N L	LONGITUI	O 80º 03'	45" O	Año:	2006	,	Área de D	renaje:	186 k	m²
DÍA	ENI	ERO	FEBI	RERO	М	ARZO	AB	RIL	М	AYO	JL	JNIO
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1	4.9	1.27	4.9	1.28	4.7	0.839	4.4	0.506	4.6	0.758	5.5	2.26
2	4.9	1.21	5.0	1.60	4.6	0.753	4.4	0.498	4.6	0.650	5.1	2.06
3	4.8	1.15	4.9	1.25	4.7	0.832	4.4	0.440	4.5	0.612	12.3	6.96
4	4.8	1.20	4.8	1.15	4.6	0.761	4.4	0.415	4.6	0.684	37.7	37.9
5	4.9	1.30	5.6	1.71	4.6	0.670	4.5	0.515	4.9	1.19	13.8	10.2
6 7	4.9	1.48	5.8	2.27	4.5	0.626	4.4	0.427	26.3	28.5	6.2	3.01
8	5.0 18.3	1.76 13.1	4.8 4.8	1.20 1.12	4.5 4.5	0.619 0.602	4.4 4.4	0.480 0.441	7.1 24.8	3.39 12.8	5.9 6.0	2.68 2.82
9	7.5	3.86	4.8	1.12	4.5	0.545	4.4	0.441	20.0	14.1	6.2	2.02
10	5.1	1.90	4.8	1.02	4.4	0.488	4.5	0.534	5.0	1.63	6.1	2.87
11	5.0	1.71	4.7	0.972	4.4	0.470	4.5	0.604	25.6	10.0	7.0	3.62
12	5.0	1.57	4.7	0.965	4.4	0.450	4.6	0.716	27.4	22.5	5.1	1.95
13	4.9	1.48	4.8	0.997	4.4	0.429	4.4	0.493	5.0	1.62	5.0	1.79
14	4.9	1.42	4.8	0.990	4.4	0.421	4.3	0.397	4.9	1.31	5.0	1.78
15	4.9	1.39	4.8	1.01	4.4	0.410	4.3	0.372	4.8	1.18	18.9	9.48
16	4.9	1.36	4.7	0.892	4.3	0.397	4.3	0.349	4.8	1.08	14.1	10.0
17	5.0	1.51	4.7	0.836	4.3	0.384	4.2	0.315	4.9	1.28	5.8	2.59
18	4.9	1.39	4.7	0.800	4.3	0.378	4.2	0.300	6.2	1.69	5.6	2.46
19	4.9	1.40	4.6	0.790	4.3	0.379	4.2	0.313	33.1	29.9	7.8	4.26
20 21	4.9 4.9	1.33 1.24	4.6 4.6	0.771 0.743	4.3 4.3	0.370 0.405	4.2 4.2	0.300 0.300	17.7 7.1	15.1 3.63	5.1 5.0	2.05
22	4.9 4.9	1.24	4.6	0.743	4.3 4.3	0.405	4.2	0.300	67.5	79.2	5.0	1.81 1.78
23	4.9	1.28	4.6	0.740	4.3	0.372	4.2	0.279	16.9	13.6	18.7	8.11
24	4.9	1.21	4.6	0.722	4.4	0.411	4.9	1.14	7.0	3.58	29.1	27.0
25	4.8	1.15	4.6	0.694	4.6	0.711	48.1	30.2	5.1	2.01	25.0	21.1
26	4.8	1.15	4.6	0.745	4.5	0.575	52.8	56.1	8.3	3.80	24.7	22.6
27	4.8	1.16	4.6	0.780	4.4	0.415	6.5	2.74	12.3	8.53	10.9	7.22
28	4.9	1.45	4.6	0.719	16.7	8.78	5.0	1.31	5.6	2.52	6.8	3.45
29	4.9	1.47			4.8	1.07	5.5	1.93	5.1	1.94	5.7	2.64
30	4.8	1.19			4.6	0.669	4.7	0.966	5.0	1.80	7.4	3.75
31	4.8	1.19			4.5	0.544		404	5.0	1.56		0.40
Total		56.5		28.5		25.1		104		272		213
DÍA	JULIO		AGOSTO		EPTIEM		OCTUBRE		NOVIEMB		DICIEMBE	RE
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1	mg/l 6.2	t/d 2.88	mg/l 12.9	t/d 10.1	mg/l 85.8	t/d 167	mg/l 12.1	t/d 9.06	mg/l 7.1	t/d 3.77	mg/l 70.6	t/d 164
1 2	mg/l 6.2 5.1	t/d 2.88 1.93	mg/l 12.9 456.8	t/d 10.1 2162	mg/l 85.8 214.5	t/d 167 516	mg/l 12.1 11.8	t/d 9.06 8.60	mg/l 7.1 7.0	t/d 3.77 3.66	mg/l 70.6 59.5	t/d 164 124
1 2 3	mg/l 6.2 5.1 5.0	t/d 2.88 1.93 1.79	mg/l 12.9 456.8 33.3	t/d 10.1 2162 46.2	mg/l 85.8 214.5 221.9	t/d 167 516 735	mg/l 12.1 11.8 17.5	t/d 9.06 8.60 15.9	mg/l 7.1 7.0 11.9	t/d 3.77 3.66 7.66	mg/l 70.6 59.5 45.1	t/d 164 124 79.2
1 2 3 4	mg/l 6.2 5.1 5.0 230.2	t/d 2.88 1.93 1.79 457	mg/l 12.9 456.8 33.3 20.4	t/d 10.1 2162 46.2 21.3	mg/l 85.8 214.5 221.9 297.0	t/d 167 516 735 1322	mg/l 12.1 11.8 17.5 12.4	t/d 9.06 8.60 15.9 9.31	mg/l 7.1 7.0 11.9 72.9	t/d 3.77 3.66 7.66 60.6	mg/l 70.6 59.5 45.1 40.4	t/d 164 124 79.2 66.4
1 2 3 4 5	mg/l 6.2 5.1 5.0 230.2 97.3	t/d 2.88 1.93 1.79 457 161	mg/l 12.9 456.8 33.3 20.4 80.2	t/d 10.1 2162 46.2 21.3 168	mg/l 85.8 214.5 221.9 297.0 55.0	t/d 167 516 735 1322 104	mg/l 12.1 11.8 17.5 12.4 10.9	t/d 9.06 8.60 15.9 9.31 7.59	mg/l 7.1 7.0 11.9 72.9 161.8	t/d 3.77 3.66 7.66 60.6 328	mg/l 70.6 59.5 45.1 40.4 41.0	t/d 164 124 79.2 66.4 67.9
1 2 3 4 5	mg/l 6.2 5.1 5.0 230.2 97.3 10.8	t/d 2.88 1.93 1.79 457 161 7.42	mg/l 12.9 456.8 33.3 20.4 80.2 22.6	t/d 10.1 2162 46.2 21.3 168 25.2	mg/l 85.8 214.5 221.9 297.0 55.0 502.3	t/d 167 516 735 1322 104 2417	mg/l 12.1 11.8 17.5 12.4 10.9 9.4	t/d 9.06 8.60 15.9 9.31 7.59 5.99	mg/l 7.1 7.0 11.9 72.9 161.8 169.2	t/d 3.77 3.66 7.66 60.6 328 291	mg/l 70.6 59.5 45.1 40.4 41.0 40.2	t/d 164 124 79.2 66.4 67.9 65.5
1 2 3 4 5 6 7	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1	t/d 2.88 1.93 1.79 457 161	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1	t/d 10.1 2162 46.2 21.3 168	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7	t/d 167 516 735 1322 104 2417 668	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8	9.06 8.60 15.9 9.31 7.59 5.99 5.40	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8	t/d 3.77 3.66 7.66 60.6 328 291 367	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7	t/d 164 124 79.2 66.4 67.9 65.5 51.3
1 2 3 4 5	mg/l 6.2 5.1 5.0 230.2 97.3 10.8	t/d 2.88 1.93 1.79 457 161 7.42 4.67	mg/l 12.9 456.8 33.3 20.4 80.2 22.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4	mg/l 85.8 214.5 221.9 297.0 55.0 502.3	t/d 167 516 735 1322 104 2417	mg/l 12.1 11.8 17.5 12.4 10.9 9.4	t/d 9.06 8.60 15.9 9.31 7.59 5.99	mg/l 7.1 7.0 11.9 72.9 161.8 169.2	t/d 3.77 3.66 7.66 60.6 328 291	mg/l 70.6 59.5 45.1 40.4 41.0 40.2	t/d 164 124 79.2 66.4 67.9 65.5
1 2 3 4 5 6 7 8	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8	t/d 167 516 735 1322 104 2417 668 1989 142 53.2	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7	t/d 3.77 3.66 7.66 60.6 328 291 367 46.6	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4
1 2 3 4 5 6 7 8 9 10	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0	1/d 9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4	t/d 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9	1/d 9.06 8.60 15.9 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3	**************************************	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7	1/d 9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2	1/d 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242
1 2 3 4 5 6 7 8 9 10 11 12 13 14	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2	t/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 22.7 22.3 27.6 22.5	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5	#d 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4 48.2	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4 48.2 8.74 5.24	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5	#d 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.82 4.77 95.82 4.75	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 22.5 19.3 62.1 30.9 124.2 122.1 32.0	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 33.7 25.2 19.5 81.1 40.4 233 297 43.8	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4 48.7 4.19	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5	1/d 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 9.26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 48.2 8.74 4.19 3.55	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6	9.06 8.60 15.9 9.31 7.59 5.99 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 48.2 8.74 5.24 4.19 3.55 3.32	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5	## 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 5.24 4.19 3.55 3.32 4.81	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5 13.4	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 14.7 12.5	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 4.5.71 63.4 4.19 3.55 3.32 4.81 5.05	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 25.1 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5 13.4 25.6	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4 48.2 4.19 3.55 3.32 4.81 5.05 6.72	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5	### 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5 13.4 25.6 18.5	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 41.1	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.1	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 5.71 63.4 48.7 4.19 3.55 3.32 4.81 5.05 6.72 720	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5 116.1	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5 13.4 25.6 18.5 42.6	## 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 12.4 12.4 12.4 12.4 12.4 12.4 12.4 12.4	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.5 13.1 16.9	#d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9 10.3 15.1	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5	9.06 8.60 15.9 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 4.81 5.24 4.81 5.05 6.72 720 39.8	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 36.0 21.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336 324	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.5 13.4 25.6 18.5 42.6 15.6	## 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9 38.1	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 41.1 249 55.1	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6 28.5	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5 36.6	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.1 16.9 34.0	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5 14.0	9.06 8.60 15.9 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 4.5.71 63.4 48.2 8.74 5.24 4.19 3.32 4.81 5.05 6.72 720 39.8 11.1	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3 66.0	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.5 13.4 25.6 18.5 42.6 11.8	## 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6 8.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 12.4 12.4 12.4 12.4 12.4 12.4 12.4 12.4	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.5 13.1 16.9	## 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9 10.3 15.1 40.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5	9.06 8.60 15.9 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 4.81 5.24 4.81 5.05 6.72 720 39.8	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 36.0 21.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336 324 148	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.5 13.4 25.6 18.5 42.6 15.6	## 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9 38.1 24.0	2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 41.1 249 55.1 27.3	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6 28.5 83.0	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5 36.6 141	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.1 16.9 34.0	## 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9 10.3 15.1 40.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5 14.0 9.0	9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 4.19 3.55 3.32 4.81 5.05 6.72 720 39.8 11.1	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3 66.0	## 3.77 3.66 7.66 60.6 328 291 367 46.6 20.3 221 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336 324 148	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.3 11.4 12.5 13.4 25.6 18.5 42.6 15.6 11.8 10.2	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6 8.68 6.80
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9 38.1 24.0 18.6	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 41.1 249 55.1 27.3 17.8 2479	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6 28.5 83.0 216.0	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 10.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5 36.6 141 529	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.1 16.9 34.0	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 18.3 14.7 12.5 10.9 10.9 10.9 16.2	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5 14.0 9.0 8.3	9.06 8.60 15.9 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 48.2 8.74 5.24 4.19 3.55 6.72 720 39.8 11.1 5.57 4.89 1098	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3 66.0	## 148	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.5 13.4 25.6 18.5 42.6 11.8 10.2 9.3	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6 8.68 6.80 5.85
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 6.2 5.1 5.0 230.2 97.3 10.8 8.1 67.5 20.7 11.7 16.7 21.1 20.3 14.5 11.2 9.3 8.2 84.3 119.6 51.9 122.2 199.4 23.7 15.8 14.7 45.1 32.2 137.9 38.1 24.0	1/d 2.88 1.93 1.79 457 161 7.42 4.67 96.0 20.3 8.44 14.5 16.3 19.3 12.2 7.97 5.82 4.77 95.5 183 62.5 159 635 27.0 14.0 12.4 57.8 41.1 249 55.1 27.3 17.8 2479	mg/l 12.9 456.8 33.3 20.4 80.2 22.6 16.1 76.8 17.0 13.5 40.3 42.2 14.4 12.2 13.6 281.7 73.1 49.0 26.8 300.6 87.7 22.2 18.1 19.1 480.6 280.6 89.8 41.6 280.6 89.8 41.6 280.6 89.8 41.6 280.6	t/d 10.1 2162 46.2 21.3 168 25.2 14.4 128 15.9 46.8 54.9 12.0 9.17 10.9 859 138 85.2 33.2 829 161 24.7 17.6 18.9 1793 1101 210 65.5 36.6 141 529 8779	mg/l 85.8 214.5 221.9 297.0 55.0 502.3 224.7 439.8 68.0 35.4 30.4 25.7 22.3 27.6 22.5 19.3 62.1 30.9 124.2 122.1 32.0 24.4 18.5 16.2 14.7 13.5 13.1 16.9 34.0 17.5	t/d 167 516 735 1322 104 2417 668 1989 142 53.2 41.4 31.5 24.9 33.7 25.2 19.5 81.1 40.4 233 297 43.8 28.4 14.7 12.5 10.9 10.3 15.1 40.9	mg/l 12.1 11.8 17.5 12.4 10.9 9.4 8.8 9.2 8.4 10.9 9.0 37.8 14.7 16.2 11.6 9.2 64.6 38.1 12.0 8.7 7.6 6.9 6.6 8.5 8.6 10.7 302.5 34.5 14.0 9.0	1/d 9.06 8.60 15.99 9.31 7.59 5.40 5.78 4.92 7.26 5.52 38.3 11.8 14.0 8.34 4.19 3.55 3.32 4.81 5.05 6.72 720 39.8 11.1 5.57 4.89 1098 Anual:	mg/l 7.1 7.0 11.9 72.9 161.8 169.2 151.8 33.8 20.0 132.7 68.4 34.3 21.2 19.8 16.1 13.3 137.5 36.0 21.5 81.0 1173.5 1026.7 408.2 233.2 140.0 116.5 116.1 113.3 66.0 60.6	## 3.77 3.66 7.66 60.6 3.28 2.91 3.67 46.6 20.3 2.21 116 49.3 22.5 20.1 14.5 10.6 228 49.5 22.5 110 24099 21445 2967 1106 515 381 336 324 148 129	mg/l 70.6 59.5 45.1 40.4 41.0 40.2 34.7 27.1 25.1 24.2 117.9 57.4 155.9 408.8 34.0 24.3 18.8 16.4 14.8 13.4 12.5 13.4 25.6 18.5 42.6 11.8 10.2 9.3	t/d 164 124 79.2 66.4 67.9 65.5 51.3 34.4 30.1 27.5 211 83.2 242 1783 49.0 28.3 18.8 15.0 12.7 10.7 9.26 8.22 9.28 10.4 25.7 17.1 64.9 13.6 8.68 6.80 5.85

Mínimo Diario: 4.2 Promedio Anual: 222.1 Máximo Diario: 1173.5 Máxima Instantánea 1304.2

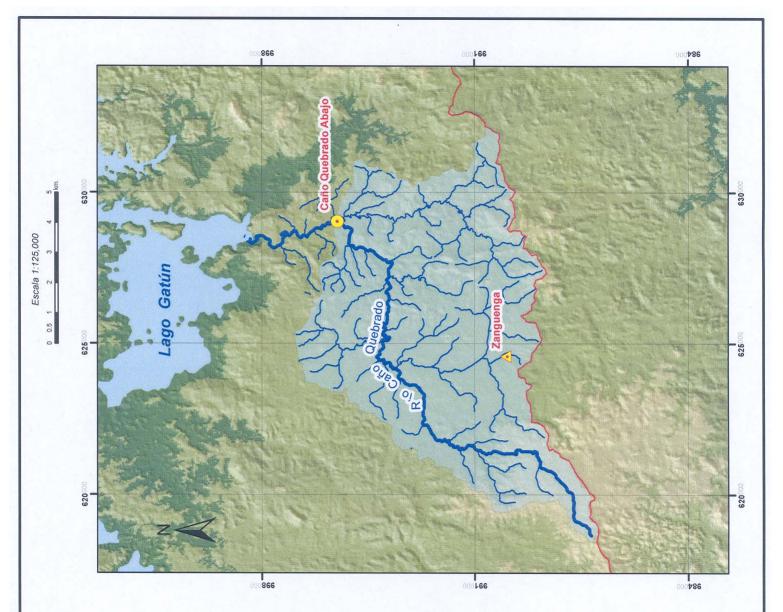
Subcuenca del río Caño Quebrado

(hasta la estación Caño Quebrado Abajo)

Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIONES







Estación Caño Quebrado Abajo en el Río Caño Quebrado





LOCALIZACIÓN: La estación está a aproximadamente 5 km (3.1 mi) aguas arriba de su descarga en el Lago Gatún, cerca del poblado Caño Quebrado Abajo, en el distrito de Chorrera, provincia de Panamá. Sus coordenadas geográficas son: 9° 00' 17" de latitud Norte y 79° 49' 34" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-09-01

ÁREA DE DRENAJE: 67 km² (25.9 mi²)

PERIODO DE REGISTRO: Desde el 1 de enero del 2003 hasta el año en curso.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1 instan	náximo táneo	Elevació	on mínima	ı diaria	Cau mín dia	imo	Cau prom ant	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	138.77	42.30	1687	47.8	20/abr.	120.91	36.85	4.47	0.126	83.4	2.36

Co.	ncentración (mg/l)		Rendimiento líquido	Producció sedim	n anual de nentos
Máxima Instantánea	Mínima diaria	Promedio anual	(l/s/km2)	t/año	t/año/km ²
499.2	6.2	124.5	35.2	9269	138

ESTACIÓN CAÑO QUEBRADO EN EL RÍO CAÑO QUEBRADO Caudales promedios diarios en pie³/s

Sensor 0711 Latitud 9° 00' 17" N Longitud 79° 49' 34" O Año: 2006

Årea de drenaje: 25.9 mi²

Elevación: 131 pie

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DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ост	NOV	DIC
1	40.1	19.3	12.4	7.78	8.43	25.0	22.9	41.0	191	65.7	71.8	130
2	38.0	18.7	12.2	7.57	7.84	22.5	20.1	136	510	61.0	66.3	115
3	39.3	16.7	10.9	7.58	7.04	23.9	17.6	71.6	294	69.9	120	106
4	35.5	16.4	10.2	7.79	6.97	150	18.3	61.9	203	64.0	85.9	100
5	33.9	17.6	9.92	7.06	38.8	187	20.1	48.9	150	57.0	76.1	95.6
6	33.3	21.5	9.62	7.25	63.0	40.6	18.4	47.9	479	53.9	68.0	93.2
7	37.0	16.3	9.36	6.75	20.9	31.1	18.8	41.8	305	52.6	217	88.7
8	41.4	14.6	9.17	6.14	106	76.3	24.3	39.8	256	121	623	87.9
9	35.6	13.7	8.65	6.03	54.5	66.6	34.0	40.3	167	86.7	260	85.8
10	32.9	14.3	8.88	7.08	17.9	84.4	30.2	41.9	136	187	108	102
11	31.1	14.9	9.05	7.14	38.8	58.0	32.6	61.8	138	209	158	100
12	29.9	15.0	8.37	9.20	40.1	34.9	29.9	49.2	114	268	170	89.4
13	28.6	14.4	8.49	7.16	28.3	30.2	61.1	40.0	104	654	110	92.0
14	27.3	14.8	8.72	7.01	23.3	30.1	107	198	231	236	95.0	105
15	28.6	14.7	8.70	7.02	17.3	87.6	40.9	187	178	144	93.8	93.1
16	27.3	14.4	8.10	6.12	13.9	117	29.3	571	106	87.9	85.1	70.9
17	27.8	13.7	6.14	5.60	23.4	31.0	24.6	179	97.9	154	126	70.2
18	27.3	12.7	6.51	5.72	200	36.0	23.8	385	94.8	233	316	66.8
19	26.6	12.1	6.92	5.24	249	27.8	28.6	159	147	255	356	60.8
20	25.3	12.9	7.35	4.47	225	24.1	28.1	280	102	115	217	58.1
21	25.3	13.4	7.45	8.09	50.6	23.8	204	272	83.5	89.6	1138	63.6
22	24.9	12.0	8.06	5.19	41.1	22.7	321	156	78.2	82.8	694	56.3
23	22.5	11.0	7.43	4.73	26.2	21.4	81.2	175	75.8	77.7	337	72.4
24	21.6	10.6	7.14	5.27	25.6	23.1	48.8	181	73.1	87.6	325	56.0
25	20.6	10.2	10.3	6.22	22.1	27.1	40.5	199	71.1	102	187	54.3
26	20.1	11.1	9.61	6.99	44.9	23.2	39.5	555	67.7	83.6	185	54.1
27	20.8	12.2	8.84	7.53	50.1	24.7	38.6	198	73.1	81.1	158	168
28	20.4	11.9	11.5	34.8	28.2	22.2	94.9	112	68.5	88.7	161	74.5
29	20.8		10.9	26.3	119	19.9	113	95.6	64.5	83.5	160	53.3
30	20.6		9.51	10.2	66.0	24.7	51.3	431	91.2	106	154	50.8
31	20.0		8.56		30.1		40.5	441		105		47.4

Caudales extremos

		Ouu	adioo omioi	1100								
	Máximos	Instantáneos		N	/línimos Diari	os		Caudales	Promedios		Escori	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	8	122.22	47.4	31	121.55	20.0		28.5	1.10		1754	1.3
Feb	6	121.67	24.4	25	121.20	10.2		14.3	0.553		796	0.6
Mar	2	121.35	14.2	17	121.01	6.14		9.00	0.347		553	0.4
Abr	28	124.60	184	20	120.91	4.47		8.37	0.323		498	0.4
May	18	136.48	1380	4	121.05	6.97		54.6	2.11		3358	2.4
Jun	5	129.52	588	29	121.54	19.9		47.3	1.82		2812	2.0
Jul	21	132.82	936	3	121.47	17.6		55.0	2.12		3379	2.4
Ago	16	137.54	1519	8	122.05	39.8		177	6.85		10903	7.9
Sep	2	138.08	1592	29	122.57	64.5		158	6.11		9423	6.8
Oct	13	137.84	1560	7	122.33	52.6		134	5.19		8257	6.0
Nov	21	138.77	1687	2	122.60	66.3		231	8.91		13733	9.9
Dic	27	129.99	634	31	122.36	47.4		82.6	3.19		5081	3.7
Anual	21	138.77	1687	20	120.91	4.47	Promedio	83.4	3.22	Total	60547	43.8

Nota: Los valores en negrita fueron estimados con la estación El Chorro

ESTACIÓN CAÑO QUEBRADO EN EL RÍO CAÑO QUEBRADO Caudales promedios diarios en m³/s

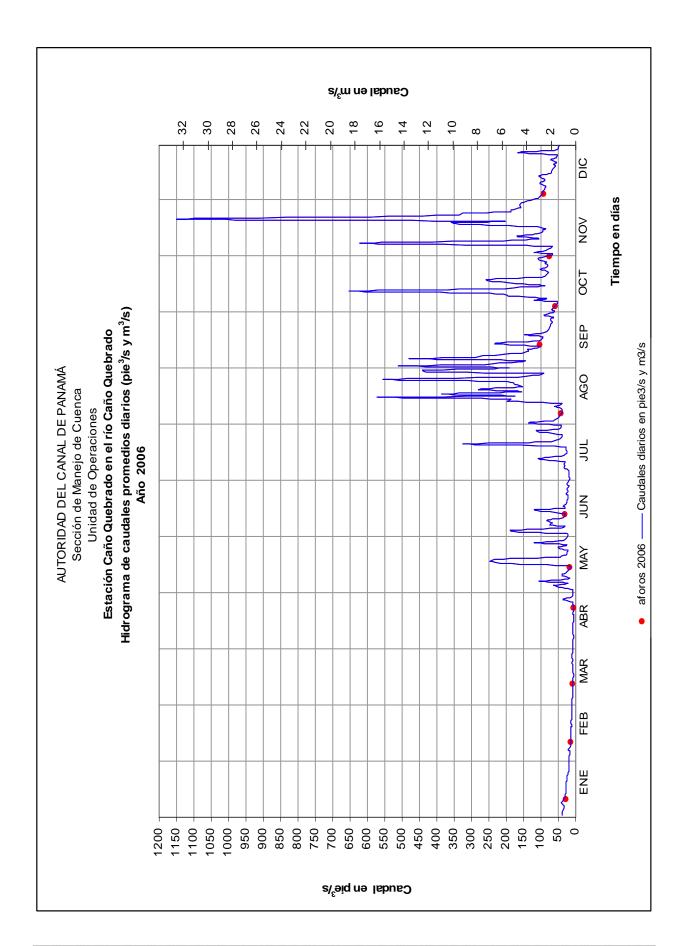
Sensor 0711 Latitud 9° 00' 17" N Longitud 79° 49' 34" O Año: 2006

Àrea de drenaje:67 km² Elevación: 39.9 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	1.13	0.547	0.352	0.220	0.239	0.709	0.649	1.16	5.41	1.86	2.03	3.68
2	1.08	0.529	0.345	0.214	0.222	0.637	0.570	3.85	14.4	1.73	1.88	3.25
3	1.11	0.473	0.309	0.215	0.199	0.676	0.498	2.03	8.32	1.98	3.39	3.01
4	1.01	0.465	0.288	0.221	0.197	4.25	0.518	1.75	5.75	1.81	2.43	2.84
5	0.960	0.498	0.281	0.200	1.10	5.30	0.570	1.38	4.25	1.61	2.16	2.71
6	0.942	0.608	0.272	0.205	1.78	1.15	0.521	1.36	13.6	1.53	1.93	2.64
7	1.05	0.463	0.265	0.191	0.593	0.882	0.531	1.18	8.64	1.49	6.14	2.51
8	1.17	0.414	0.260	0.174	2.99	2.16	0.688	1.13	7.24	3.42	17.7	2.49
9	1.01	0.388	0.245	0.171	1.54	1.89	0.963	1.14	4.74	2.45	7.36	2.43
10	0.933	0.405	0.251	0.200	0.507	2.39	0.856	1.19	3.86	5.30	3.05	2.90
11	0.880	0.421	0.256	0.202	1.10	1.64	0.922	1.75	3.91	5.93	4.47	2.83
12	0.846	0.425	0.237	0.261	1.14	0.988	0.847	1.39	3.24	7.60	4.81	2.53
13	0.809	0.407	0.240	0.203	0.802	0.854	1.73	1.13	2.95	18.5	3.12	2.60
14	0.773	0.419	0.247	0.198	0.659	0.854	3.03	5.59	6.55	6.69	2.69	2.99
15	0.811	0.418	0.246	0.199	0.491	2.48	1.16	5.29	5.04	4.08	2.66	2.64
16	0.773	0.409	0.229	0.173	0.393	3.32	0.829	16.2	3.01	2.49	2.41	2.01
17	0.786	0.387	0.174	0.159	0.662	0.879	0.696	5.07	2.77	4.36	3.57	1.99
18	0.773	0.360	0.184	0.162	5.65	1.02	0.674	10.9	2.69	6.59	8.95	1.89
19	0.752	0.343	0.196	0.149	7.04	0.787	0.810	4.50	4.15	7.23	10.1	1.72
20	0.716	0.365	0.208	0.126	6.37	0.682	0.797	7.94	2.88	3.24	6.15	1.65
21	0.717	0.379	0.211	0.229	1.43	0.675	5.77	7.70	2.37	2.54	32.2	1.80
22	0.706	0.341	0.228	0.147	1.16	0.644	9.10	4.43	2.21	2.34	19.7	1.60
23	0.637	0.312	0.210	0.134	0.743	0.606	2.30	4.96	2.15	2.20	9.54	2.05
24	0.612	0.301	0.202	0.149	0.725	0.653	1.38	5.14	2.07	2.48	9.21	1.59
25	0.582	0.289	0.293	0.176	0.626	0.768	1.15	5.62	2.01	2.90	5.31	1.54
26	0.568	0.313	0.272	0.198	1.27	0.656	1.12	15.7	1.92	2.37	5.24	1.53
27	0.589	0.345	0.250	0.213	1.42	0.700	1.09	5.62	2.07	2.30	4.48	4.74
28	0.578	0.336	0.326	0.985	0.800	0.629	2.69	3.18	1.94	2.51	4.56	2.11
29	0.589		0.309	0.746	3.37	0.564	3.20	2.71	1.83	2.36	4.53	1.51
30	0.583		0.269	0.288	1.87	0.701	1.45	12.2	2.58	3.01	4.37	1.44
31	0.568		0.243		0.854		1.15	12.5		2.97		1.34

		Odd	daico catici	1100								
	Máximos instantáneos				Mínimos diarios			Caudales promedios			Escorrentía	
Mes	Día Elevación C		Caudal Día	Día	Elevación	Caudal	Mensuales		suales			
		m	m ³ /s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	8	37.25	1.34	31	37.05	0.568		0.808	12.1		2.16	32.3
Feb	6	37.09	0.691	25	36.94	0.289		0.406	6.06		0.981	14.6
Mar	2	36.99	0.402	17	36.88	0.174		0.255	3.80		0.683	10.2
Abr	28	37.98	5.20	20	36.85	0.126		0.237	3.54		0.614	9.17
May	18	41.60	39.1	4	36.90	0.197		1.55	23.1		4.14	61.8
Jun	5	39.48	16.7	29	37.05	0.564		1.34	20.0		3.5	51.8
Jul	21	40.48	26.5	3	37.02	0.498		1.56	23.2		4.17	62.2
Ago	16	41.92	43.0	8	37.20	1.13		5.02	74.9		13.4	201
Sep	2	42.09	45.1	29	37.36	1.83		4.48	66.9		11.6	173
Oct	13	42.01	44.2	7	37.29	1.49		3.80	56.8		10.2	152
Nov	21	42.30	47.8	2	37.37	1.88		6.54	97.6		16.9	253
Dic	27	39.62	18.0	31	37.29	1.34		2.34	34.9		6.27	93.6
Anual	21	42.30	47.8	20	36.85	0.126	Promedio	2.36	35.2	Total	75	1115

Nota: Los valores en negrita fueron estimados con la estación El Chorro



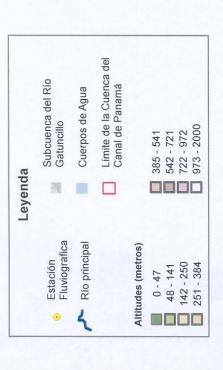
ESTACIÓN CAÑO QUEBRADO EN EL RÍO CAÑO QUEBRADO Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD 9° 00' 17" N LONGITUD 79° 49' 34" O Año: 2006 Área de Drenaje: 67 km²												
										-		
DÍA		ERO		RERO		ARZO		BRIL		AYO		JNIO
4	mg/l	t/d		t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1 2	16.6 15.8	1.63 1.47		0.405 0.380	6.7 6.7	0.202 0.198	6.4 6.4	0.123 0.119	6.5 6.4	0.133 0.123	10.9 9.8	0.665 0.541
3	16.3	1.57		0.307	6.6	0.176	6.4	0.119	6.4	0.110	10.8	0.629
4	14.9	1.30	7.4	0.296	6.6	0.163	6.4	0.123	6.4	0.109	121.7	44.7
5	14.3	1.19		0.340	6.5	0.159	6.4	0.110	35.4	3.36	120.1	55.0
6 7	14.0 15.5	1.14 1.40		0.497 0.295	6.5 6.5	0.154 0.149	6.4 6.4	0.114 0.105	26.3 9.7	4.06 0.497	17.1 13.3	1.70 1.01
8	17.2	1.74		0.293	6.5	0.149	6.3	0.105	119.4	30.8	99.7	18.6
9	15.0	1.30		0.225	6.5	0.137	6.3	0.093	31.0	4.13	34.4	5.60
10	13.9	1.12		0.237	6.5	0.141	6.4	0.111	8.0	0.351	44.0	9.09
11	13.2	1.00		0.249	6.5	0.144 0.133	6.4	0.112	33.3	3.16	25.4	3.61
12 13	12.7 12.2	0.931 0.853		0.253 0.237	6.5 6.5	0.133	6.5 6.4	0.147 0.112	17.5 12.2	1.72 0.844	14.7 12.8	1.26 0.947
14	11.7	0.783		0.247	6.5	0.138	6.4	0.109	10.1	0.577	12.8	0.946
15	12.2	0.857		0.246	6.5	0.138	6.4	0.110	7.9	0.334	33.8	7.25
16	11.7	0.784		0.239	6.5	0.128	6.3	0.095	6.8	0.230	44.2	12.7
17 18	11.9 11.7	0.810 0.783		0.224 0.207	6.3 6.4	0.095 0.101	6.3 6.3	0.086 0.088	10.3 341.6	0.590 167	13.3 15.3	1.01 1.35
19	11.4	0.743		0.197	6.4	0.101	6.3	0.080	146.4	89.0	12.0	0.814
20	10.9	0.676	6.7	0.210	6.4	0.115	6.2	0.068	135.0	74.3	10.5	0.621
21	11.0	0.679		0.219	6.4	0.117	6.5	0.128	21.1	2.62	10.4	0.605
22 23	10.8 9.8	0.659 0.541		0.196 0.178	6.5 6.4	0.127 0.116	6.2 6.2	0.079 0.072	17.3 11.3	1.73 0.726	9.9 9.4	0.553 0.492
24	9.5	0.502		0.178	6.4	0.110	6.3	0.072	11.3	0.726	10.1	0.492
25	9.1	0.456		0.164	6.6	0.166	6.3	0.096	9.8	0.527	12.2	0.809
26	8.9	0.436		0.179	6.5	0.154	6.4	0.109	27.1	2.97	10.2	0.580
27	9.2	0.466		0.198	6.5	0.140	6.4	0.118	21.7	2.66	10.7	0.649
28 29	9.0 9.2	0.451 0.466		0.193	6.6 6.6	0.186 0.176	38.0 13.5	3.23 0.870	12.3 51.8	0.848 15.1	9.7 8.8	0.529 0.429
30	9.1	0.457			6.5	0.170	6.6	0.163	29.1	4.70	11.5	0.695
31	8.9	0.434			6.5	0.136			12.9	0.950		
Total		27.6		7.03		4.44		7.06		415		174
DIA	JULIO		AGOSTO		SEPTIEM	RPF	OCTUBR	F 1	NOVIEMB	DE C	ICIEMBI) F
DIA	mg/l	t/d		t/d	mg/l	t/d	mg/l	L t/d	mg/l	t/d	mg/l	t/d
1	10.1	0.568	17.4	1.74	97.0	45.4	26.1	4.20	28.3	4.96	48.6	15.4
2	8.9	0.438		24.1	341.3	426	24.3	3.63	26.3	4.26	43.3	12.2
3 4	7.9 8.2	0.338 0.366		5.19 3.81	135.7 83.0	97.5 41.2	28.0 25.6	4.79 4.01	66.5 35.4	19.5 7.43	40.4 38.3	10.5 9.40
5	8.9	0.439		2.39	56.4	20.7	22.9	3.20	29.9	5.57	36.7	8.59
6	8.2	0.369		2.29	289.4	339	21.8	2.88	27.0	4.48	35.8	8.17
7	8.3	0.383		1.77	145.1	108	21.3	2.74	139.8	74.2	34.3	7.44
8 9	11.5 14.6	0.685 1.21		1.61 1.65	101.7 61.8	63.6 25.3	58.2 36.9	17.2 7.83	345.6 117.4	527 74.6	34.0 33.2	7.31 6.97
10	13.3	0.982		1.82	51.2	17.1	128.2	58.7	41.5	10.9	41.7	10.4
11	14.2	1.13	26.5	4.00	52.1	17.6	159.0	81.4	68.0	26.3	40.0	9.80
12	13.1	0.956		2.54	43.2	12.1	208.7	137	63.1	26.2	35.5	7.76
13 14	40.5 62.9	6.06 16.5		1.64 79.8	39.6 134	10.1 76.1	334.7 117.7	535 68.0	42.0 36.5	11.3 8.47	38.5 42.2	8.65 10.9
15	17.3	1.73		57.0	70.6	30.7	57.0	20.1	36.1	8.29	37.3	8.49
16	12.5	0.895		488	40.4	10.5	34.1	7.33	33.0	6.87	28.0	4.85
17	10.7	0.644		41.9	37.5	8.97	84.9	32.0	53.8	16.6	27.7	4.76
18 19	10.5 12.4	0.612 0.866		195 24.8	36.4 67.3	8.45 24.2	120.2 122.1	68.5 76.3	189.3 187.7	146 164	26.5 24.3	4.33 3.61
20	12.4	0.834		119	39.8	9.90	44.4	12.4	107.7	55.0	23.3	3.32
21	228.0	114		93.8	32.5	6.63	34.6	7.57	420.5	1171	25.6	3.98
22	168.7	133		22.2	30.5	5.84	32.2	6.52	284.6	483	22.7	3.12
23 24	38.6 19.9	7.67 2.38		27.3 29.3	29.7 28.7	5.51 5.14	30.4 35.0	5.78 7.51	137.5 133.0	113 106	29.9 22.5	5.30 3.09
2 4 25	16.9	2.30 1.67		50.0	28.0	4.87	40.3	10.1	67.7	31.1	21.9	2.91
26	16.5	1.59		282	26.8	4.44	32.6	6.66	67.5	30.6	21.8	2.89
27	16.1	1.52		39.7	29.2	5.22	31.6	6.27	58.0	22.4	120.2	49.3
28	61.1	14.2		11.7	27.2	4.56	34.4	7.46	59.6	23.5	32.0	5.83
29 30	46.7 21.3	12.9 2.67		8.59 311	25.6 36.7	4.05 8.19	32.4 48.1	6.63 12.5	61.4 58.9	24.0 22.2	21.6 20.7	2.81 2.57
31	16.8	1.67		211	00.7	0.10	44.1	11.3	00.0	22.2	19.4	2.25
Total		328		2147		1447		1236		3229		247
To	otal Anual:		9269 t/año				Producció	n Anual:		138 t/añ	o/km²	
				onocat	nción do C				71)	. 55 4411		
					ación de Se	-annent0	•	. •	•			
			Mínimo Diar Máximo Dia		6.2 420.5		Promedio A Máxima Ins		124.5 499.2			
Autorials	l del Canal d	la Dan-		10.	420.5		iviaxiilla ilis	olai ildi ied	433.4			67

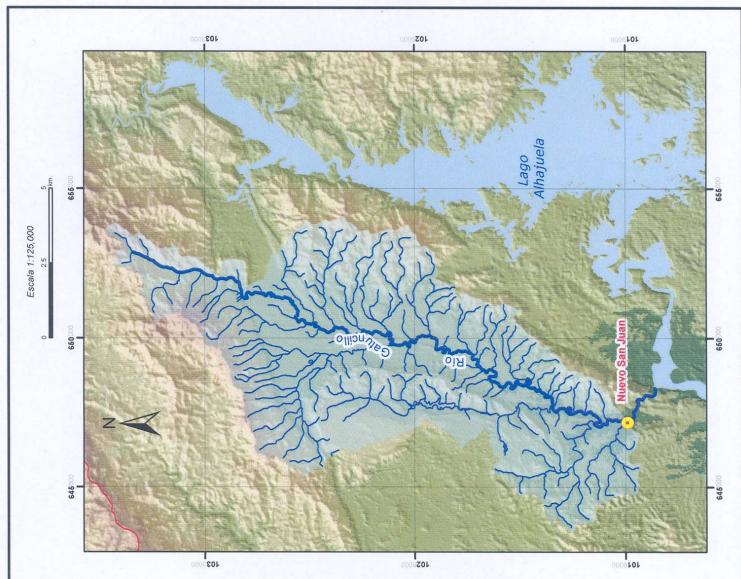
Subcuenca del río Gatuncillo

(hasta la estación Nuevo San Juan)

Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIÓNES







Estación Nuevo San Juan en el Río Gatuncillo





LOCALIZACIÓN: La estación está a 2.4 km. (1.49 mi) aguas arriba de la desembocadura del río Gatuncillo al curso medio del Chagres, cerca del poblado Nuevo San Juan, en el distrito de Colón, provincia de Colón. Sus coordenadas geográficas son: 09° 12' 57" de latitud Norte y 79° 39' 37" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 115-10-01

ÁREA DE DRENAJE: 87.1 km² (33.63 mi²)

PERIODO DE REGISTRO: Desde el 1 de enero del 2006 hasta la fecha.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevació	n mínim	a diaria		idal imo rio	Cau prom ant	edio
día/mes	día/mes pie m pie ³ /s m ³ /s				día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
12/oct.	12/oct. 79.84 24.34 2300 65.1				20/mar.	64.56	19.68	1.11	0.031	138	3.91

Nota: En esta estación no se toman muestras de sedimentos suspendidos

ESTACIÓN NUEVO SAN JUAN EN EL RÍO GATUNCILLO Caudales promedios diarios en pie³/s

Sensor 1111 Latitud 9° 12' 57" N Longitud 79° 39' 37" O Año: 2006

Área de drenaje: 33.6 mi²

Elevación: 77.5 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	27.8	7.95	3.34	2.44	6.04	63.7	68.3	127	659	117	257	245
2	26.6	7.66	3.12	2.30	5.53	48.3	53.3	131	404	115	343	190
3	26.0	8.97	3.94	2.09	4.42	80.7	212	343	314	405	311	181
4	28.1	7.85	3.65	1.97	4.24	71.5	421	369	423	285	209	150
5	24.7	10.7	3.13	1.78	4.68	51.4	177	265	260	180	155	135
6	24.3	16.2	3.14	1.49	10.8	28.8	102	167	192	162	155	121
7	25.2	8.58	2.80	1.48	13.6	19.2	72.2	125	173	142	202	108
8	25.3	7.67	2.82	1.49	19.3	18.3	312	592	505	121	206	105
9	22.7	7.72	2.21	2.31	12.9	18.1	156	724	269	397	459	107
10	20.4	6.68	1.97	10.0	9.19	139	207	229	160	393	310	123
11	19.8	6.20	1.90	15.0	23.9	104	281	273	279	301	936	114
12	19.8	6.44	1.86	4.07	48.0	45.1	147	331	159	690	692	94.9
13	19.1	6.28	1.86	2.23	20.3	107	296	192	125	722	309	106
14	18.0	5.80	1.75	1.66	10.1	84.1	402	147	165	323	215	154
15	17.5	5.71	1.65	1.77	65.2	69.4	189	133	476	1164	181	135
16	15.6	5.55	1.54	1.71	37.7	153	129	127	228	326	167	121
17	14.7	5.19	1.40	1.71	13.5	87.0	104	115	145	225	181	95.7
18	14.1	4.70	1.73	1.46	102	48.8	143	138	122	195	184	87.3
19	12.7	4.40	1.50	2.03	199	35.3	257	138	133	147	242	86.5
20	12.0	4.13	1.11	3.71	93.7	134	317	111	110	131	274	78.6
21	11.0	3.94	1.32	4.27	76.4	96.3	361	97.6	98.9	118	553	74.0
22	13.9	3.75	1.24	2.43	43.1	54.2	344	90.4	94.2	105	1425	72.9
23	14.7	3.68	2.52	2.29	25.6	59.8	312	227	79.2	97.8	629	79.6
24	10.6	3.84	2.20	24.5	18.7	146	183	156	77.4	213	501	76.6
25	9.56	3.60	6.85	16.4	13.6	73.6	124	137	134	283	369	71.9
26	9.79	3.73	3.19	20.9	22.3	493	403	162	107	244	360	70.4
27	8.86	3.75	2.03	25.0	105	950	283	168	96.1	165	259	422
28	9.67	3.10	15.7	39.0	48.7	398	318	117	80.9	308	353	163
29	9.08		9.94	25.0	219	127	236	113	76.6	743	416	85.8
30	8.19		4.48	9.82	93.1	88.1	191	163	181	282	389	76.7
31	7.78		2.88		47.3		140	349		281		71.0

Cauda	Inc	_ovti	nn	2
Cauua	ıcə	CVI	CII	เบอ

		Cau	שמוכט באנו כו									
	Máximos Instantáneos				Mínimos Diari	os		Caudales	Promedios		Escori	rentía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Mer pie³/s	suales pie³/s/mi²		Acre-pie	plg
Ene	22	65.55	38.0	31	64.96	7.78		17.0	0.506		1046	0.6
Feb	6	65.42	29.0	28	64.74	3.10		6.21	0.185		345	0.2
Mar	28	65.65	44.7	20	64.56	1.11		3.19	0.095		196	0.1
Abr	28	66.29	92.9	18	64.61	1.46		7.74	0.230		461	0.3
May	18	73.44	1032	4	64.81	4.24		45.7	1.36		2810	1.6
Jun	27	77.54	1807	9	65.23	18.1		130	3.86		7720	4.3
Jul	4	76.35	1568	2	65.77	53.3		224	6.67		13772	7.7
Ago	9	77.72	1845	22	66.26	90.4		212	6.30		13006	7.3
Sep	1	77.92	1886	29	66.08	76.6		211	6.28		12555	7.0
Oct	12	79.84	2300	23	66.56	97.8		303	9.00		18604	10.4
Nov	11	79.63	2253	5	67.49	155		375	11.2		22294	12.4
Dic	27	76.43	1584	26	66.52	70.4		123	3.65		7543	4.2
Anual	12	79.84	2300	20	64.56	1.11	Promedio	138	4.11	Total	100352	56.0

ESTACIÓN NUEVO SAN JUAN EN EL RÍO GATUNCILLO Caudales promedios diarios en m³/s

Sensor 1111 Latitud 9° 12' 57" N Longitud 79° 39' 37" O Año: 2006

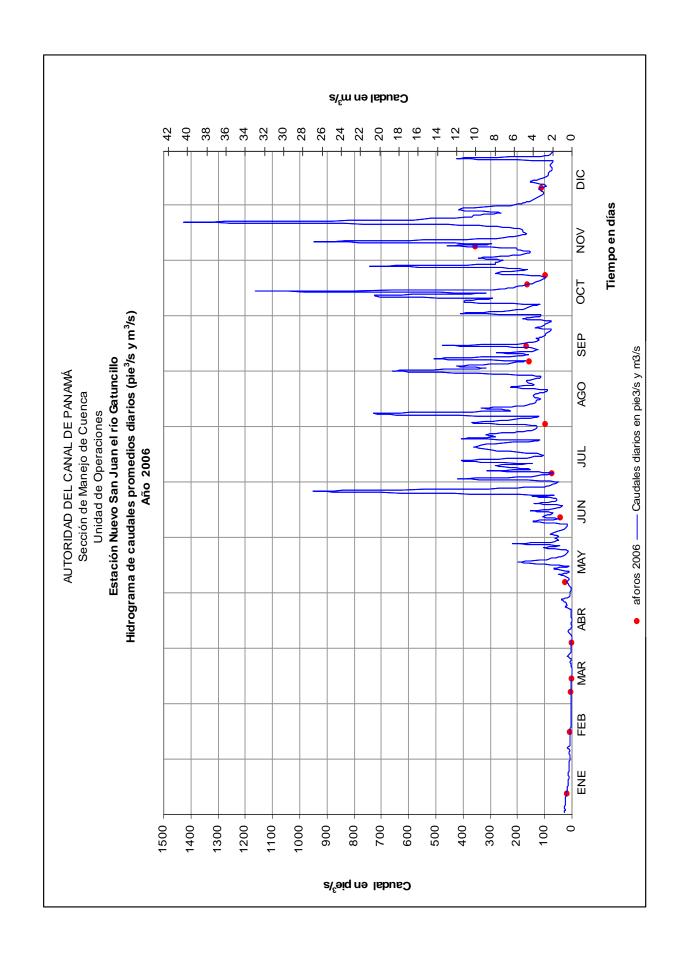
Area de drenaje: 87.1 km²

Elevación: 23.6 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	0.788	0.225	0.095	0.069	0.171	1.80	1.94	3.60	18.7	3.32	7.29	6.94
2	0.755	0.217	0.088	0.065	0.156	1.37	1.51	3.72	11.4	3.25	9.70	5.38
3	0.737	0.254	0.112	0.059	0.125	2.29	5.99	9.72	8.90	11.5	8.81	5.13
4	0.796	0.222	0.103	0.056	0.120	2.03	11.9	10.5	12.0	8.06	5.92	4.26
5	0.700	0.303	0.089	0.050	0.133	1.46	5.02	7.50	7.37	5.11	4.38	3.83
6	0.689	0.459	0.089	0.042	0.306	0.816	2.89	4.73	5.44	4.59	4.40	3.42
7	0.712	0.243	0.079	0.042	0.386	0.544	2.04	3.55	4.91	4.01	5.72	3.06
8	0.716	0.217	0.080	0.042	0.546	0.517	8.83	16.8	14.3	3.43	5.84	2.96
9	0.644	0.219	0.063	0.065	0.366	0.511	4.41	20.5	7.61	11.2	13.0	3.04
10	0.578	0.189	0.056	0.283	0.260	3.93	5.87	6.48	4.54	11.1	8.77	3.49
11	0.560	0.176	0.054	0.424	0.678	2.93	7.96	7.73	7.91	8.52	26.5	3.24
12	0.561	0.182	0.053	0.115	1.36	1.28	4.16	9.37	4.50	19.5	19.6	2.69
13	0.540	0.178	0.053	0.063	0.574	3.04	8.39	5.45	3.53	20.4	8.74	3.00
14	0.509	0.164	0.050	0.047	0.287	2.38	11.4	4.15	4.67	9.14	6.08	4.36
15	0.496	0.162	0.047	0.050	1.85	1.96	5.36	3.75	13.5	33.0	5.11	3.82
16	0.441	0.157	0.043	0.049	1.07	4.33	3.65	3.61	6.47	9.23	4.72	3.43
17	0.417	0.147	0.040	0.048	0.381	2.47	2.95	3.25	4.12	6.36	5.12	2.71
18	0.399	0.133	0.049	0.041	2.88	1.38	4.05	3.92	3.46	5.53	5.21	2.47
19	0.359	0.125	0.043	0.057	5.63	1.00	7.28	3.90	3.78	4.17	6.85	2.45
20	0.338	0.117	0.031	0.105	2.65	3.80	8.99	3.14	3.13	3.71	7.76	2.23
21	0.311	0.112	0.037	0.121	2.16	2.73	10.2	2.77	2.80	3.33	15.7	2.10
22	0.394	0.106	0.035	0.069	1.22	1.54	9.75	2.56	2.67	2.98	40.4	2.06
23	0.416	0.104	0.071	0.065	0.725	1.69	8.84	6.43	2.24	2.77	17.8	2.25
24	0.300	0.109	0.062	0.693	0.529	4.12	5.19	4.41	2.19	6.03	14.2	2.17
25	0.271	0.102	0.194	0.466	0.385	2.08	3.52	3.89	3.79	8.01	10.5	2.04
26	0.277	0.106	0.090	0.591	0.630	14.0	11.4	4.60	3.04	6.90	10.2	1.99
27	0.251	0.106	0.057	0.708	2.98	26.9	8.02	4.74	2.72	4.67	7.33	11.95
28	0.274	0.088	0.444	1.11	1.38	11.3	8.99	3.32	2.29	8.72	10.0	4.63
29	0.257		0.282	0.708	6.21	3.60	6.68	3.21	2.17	21.1	11.8	2.43
30	0.232		0.127	0.278	2.64	2.50	5.42	4.63	5.12	8.00	11.0	2.17
31	0.220		0.081		1.34		3.96	9.88		7.95		2.01

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	Máximos instantáneos			1	Mínimos diari	os			Esco	rrentía		
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		m	m ³ /s		m	m ³ /s		m ³ /s	l/s/km ²		MMC	mm
Ene	22	19.98	1.08	31	19.80	0.220		0.482	5.53		1.29	14.8
Feb	6	19.94	0.822	28	19.73	0.088		0.176	2.02		0.425	4.88
Mar	28	20.01	1.27	20	19.68	0.031		0.090	1.04		0.242	2.77
Abr	28	20.21	2.63	18	19.69	0.041		0.219	2.52		0.568	6.53
May	18	22.38	29.2	4	19.75	0.120		1.29	14.9		3.47	39.8
Jun	27	23.63	51.2	9	19.88	0.511		3.67	42.2		9.52	109
Jul	4	23.27	44.4	2	20.05	1.51		6.34	72.8		17.0	195
Ago	9	23.69	52.2	22	20.20	2.56		5.99	68.8		16.0	184
Sep	1	23.75	53.4	29	20.14	2.17		5.98	68.6		15.5	178
Oct	12	24.34	65.1	23	20.29	2.77		8.57	98.4		23.0	264
Nov	11	24.27	63.8	5	20.57	4.38		10.6	121.8		27.5	316
Dic	27	23.30	44.9	26	20.28	1.99		3.47	39.9		9.31	107
Anual	12	24.34	65.1	20	19.68	0.031	Promedio	3.91	44.9	Total	124	1421



Escala 1:275,000 2.5 009 Hermanas Las Marias 089 680 000226 000046 000896 000996 Subcuenca del Río Indio Límite de la Cuenca del Canal de Panamá Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca UNIDAD DE OPERACIONES Cuerpos de Agua (hasta la estación Tres Hermanas) Subcuenca del río Indio Río principal Localización Regional 385 - 541 542 - 721 722 - 972 973 - 2000 Leyenda Estación Principales (Tipo A) Estación Fluviografica Estación Pluviografica Altitudes (metros) 0 - 47 Estación 251 - 384 Inactiva

Estación Boca de Uracillo en el Río Indio





LOCALIZACIÓN: La estación está a 1.5 km (0.93 mi) aguas abajo de la confluencia con el río Uracillo, en la provincia de Coclé. Sus coordenadas geográficas son: 8° 58' 33" de latitud Norte y 80° 10' 30" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 111-01-02

ÁREA DE DRENAJE: 365 km² (141 mi²)

PERIODO DE REGISTRO: Desde julio de 1979 hasta noviembre de 2006. (Nota: La estación fue instalada y operada por ETESA (antes IRHE) hasta mayo del 2002).

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevació	n mínim	a diaria		idal imo rio	Cau prom ant	edio
día/mes	día/mes pie m pie ³ /s m ³ /s				día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	21/nov. 70.00 21.34			624	20/mar.	29.54	9.01	91.6	2.59	838	23.7

CAUDAL SÓLIDO:

Со	ncentración (mg/l)	Rendimiento líquido	Producció sedim	n anual de nentos	
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km²
6619.1	6.9	607.2	65.0	454178	1244

ESTACIÓN BOCA DE URACILLO EN EL RÍO INDIO Caudales promedios diarios en pie³/s

Sensor 3111 Año: 2006

Area de drenaje: 141 mi² Latitud: 8° 58' 33" N Longitud: 80° 10' 30" O

Elevación: 98 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	311	254	158	118	209	1036	518	736	1305	514	814	2519
2	303	271	142	127	190	583	397	1242	1044	550	493	1767
3	295	210	149	115	185	774	373	841	1384	1323	549	1445
4	287	195	141	106	865	771	1777	727	1629	629	1686	1306
5	290	213	129	106	819	656	1166	810	1455	523	1578	1248
6	339	271	122	102	1810	489	538	742	1729	464	809	1224
7	387	209	120	116	818	532	497	643	1609	441	1352	1117
8	784	193	116	109	712	675	1751	1431	2544	422	1160	972
9	585	181	111	105	734	456	1121	728	1612	468	964	1017
10	371	176	108	479	455	495	698	616	1071	685	858	1056
11	330	172	106	304	394	508	770	1234	1095	499	1030	1430
12	308	174	102	316	741	412	614	1432	871	571	1185	1145
13	291	179	99.4	175	380	384	745	680	762	700	908	1166
14	281	171	97.1	140	321	379	2751	607	805	811	1079	1907
15	276	173	95.0	127	296	509	912	969	951	653	770	1075
16	265	166	96.8	123	324	812	743	3846	753	559	606	848
17	276	157	97.0	118	329	792	676	2368	1064	486	2676	701
18	265	153	93.5	113	485	677	801	1987	1134	541	1054	633
19	257	148	93.0	111	1220	577	1261	1289	937	420	870	589
20	250	144	91.6	131	662	474	1062	1780	1303	377	1195	576
21	239	138	99.0	119	514	673	838	1421	1019	354	13456	543
22	231	136	96.6	113	672	508	2694	948	848	337	11436	536
23	246	135	91.8	188	787	623	1110	889	654	326	11482	509
24	236	131	127	337	621	1129	824	1214	600	356	8310	484
25	225	129	193	444	494	772	1022	2262	567	401	5712	578
26	224	131	145	725	628	655	1495	2447	569	590	4524	577
27	226	136	110	384	825	574	1421	1288	521	1889	3980	1880
28	229	134	449	272	783	486	1090	1123	531	1746	3072	876
29	252		226	386	569	431	1652	1172	702	851	2563	619
30	222		144	256	511	623	1590	897	662	613	2094	545
31	221		125		435		940	1055		624		490

Caudales extremos

		Cauc	שובט באנוכו	1105								
	Máximos Instantáneos				/línimos Diari	os	(Caudales	Promedios		Escorr	entía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Men pie³/s	suales pie ³ /s/mi ²		Acre-pie	plg
Ene	8	32.29	1346	31	29.96	221		300	2.13		18447	2.5
Feb	6	30.40	357	25	29.71	129		174	1.24		9674	1.3
Mar	28	31.86	1121	20	29.54	91.6		131	0.932		8082	1.1
Abr	26	32.53	1472	6	29.59	102		212	1.50		12626	1.7
May	6	35.05	2807	3	29.91	185		606	4.30		37269	5.0
Jun	23	37.51	4125	14	30.45	379		615	4.36		36620	4.9
Jul	14	44.88	8122	3	30.44	373		1092	7.74		67132	8.9
Ago	25	45.23	8313	14	30.94	607		1272	9.02		78200	10.4
Sep	8	44.47	7898	27	30.77	521		1058	7.50		62933	8.4
Oct	27	43.68	7467	23	30.32	326		636	4.51		39118	5.2
Nov	21	70.00	22016	2	30.71	493		2942	20.9		175069	23.3
Dic	13	38.05	4415	24	30.69	484		1012	7.18		62239	8.3
Anual	21	70.00	22016	20	29.54	91.6	Promedio	838	5.94	Total	607410	80.8

Nota 1 : Los valores en negrita fueron estimados mediante correlación con la estación El Chorro

Nota 2: El nivel máximo registrado durante la crecida del 21 de noviembre de 2006 se determinó por levantamiento

ESTACIÓN BOCA DE URACILLO EN EL RÍO INDIO Caudales promedios diarios en m³/s

Sensor 3111 Año: 2006

Latitud: 8° 58′ 33″ N

Area de drenaje:365 km²

Longitud: 80° 10′ 30″ O

Elevación: 30 m

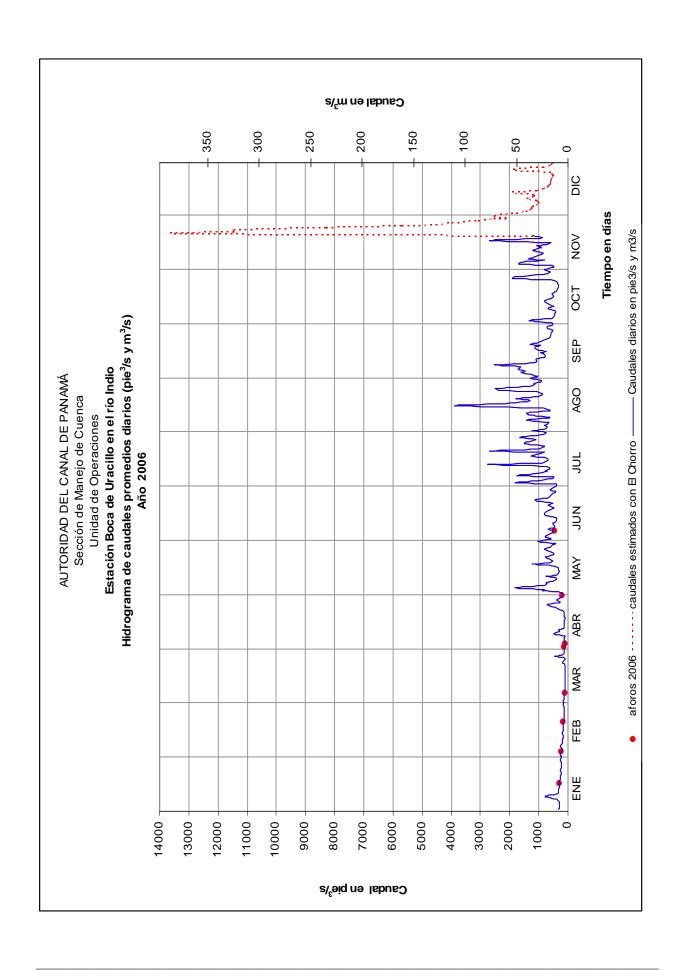
DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	8.81	7.20	4.47	3.33	5.93	29.3	14.7	20.8	36.9	14.5	23.0	71.3
2	8.57	7.67	4.02	3.59	5.37	16.5	11.2	35.2	29.6	15.6	14.0	50.1
3	8.35	5.94	4.23	3.26	5.23	21.9	10.6	23.8	39.2	37.5	15.5	40.9
4	8.14	5.51	4.01	3.00	24.5	21.8	50.3	20.6	46.1	17.8	47.8	37.0
5	8.23	6.03	3.65	2.99	23.2	18.6	33.0	22.9	41.2	14.8	44.7	35.3
6	9.60	7.67	3.45	2.88	51.3	13.8	15.2	21.0	49.0	13.1	22.9	34.7
7	10.9	5.91	3.40	3.28	23.2	15.1	14.1	18.2	45.6	12.5	38.3	31.6
8	22.2	5.45	3.27	3.10	20.2	19.1	49.6	40.5	72.0	12.0	32.9	27.5
9	16.6	5.13	3.14	2.97	20.8	12.9	31.7	20.6	45.7	13.3	27.3	28.8
10	10.5	4.99	3.06	13.6	12.9	14.0	19.8	17.5	30.3	19.4	24.3	29.9
11	9.34	4.87	3.00	8.60	11.2	14.4	21.8	34.9	31.0	14.1	29.2	40.5
12	8.72	4.92	2.89	8.96	21.0	11.7	17.4	40.6	24.7	16.2	33.6	32.4
13	8.25	5.06	2.81	4.96	10.8	10.9	21.1	19.3	21.6	19.8	25.7	33.0
14	7.96	4.83	2.75	3.98	9.08	10.7	77.9	17.2	22.8	23.0	30.6	54.0
15	7.82	4.89	2.69	3.60	8.39	14.4	25.8	27.4	26.9	18.5	21.8	30.4
16	7.50	4.69	2.74	3.50	9.17	23.0	21.0	109	21.3	15.8	17.2	24.0
17	7.83	4.45	2.75	3.35	9.31	22.4	19.1	67.1	30.1	13.8	75.8	19.9
18	7.49	4.33	2.65	3.20	13.7	19.2	22.7	56.3	32.1	15.3	29.9	17.9
19	7.28	4.20	2.63	3.14	34.5	16.4	35.7	36.5	26.5	11.9	24.6	16.7
20	7.09	4.07	2.59	3.70	18.8	13.4	30.1	50.4	36.9	10.7	33.9	16.3
21	6.77	3.90	2.80	3.38	14.6	19.1	23.7	40.3	28.9	10.0	381	15.4
22	6.54	3.85	2.74	3.21	19.0	14.4	76.3	26.8	24.0	9.55	324	15.2
23	6.97	3.83	2.60	5.32	22.3	17.6	31.4	25.2	18.5	9.24	325	14.4
24	6.69	3.71	3.61	9.54	17.6	32.0	23.3	34.4	17.0	10.1	235	13.7
25	6.36	3.65	5.46	12.6	14.0	21.9	28.9	64.1	16.1	11.4	162	16.4
26	6.34	3.70	4.12	20.5	17.8	18.5	42.3	69.3	16.1	16.7	128	16.3
27	6.39	3.85	3.11	10.9	23.4	16.2	40.2	36.5	14.8	53.5	113	53.3
28	6.47	3.81	12.7	7.71	22.2	13.8	30.9	31.8	15.0	49.4	87.0	24.8
29	7.13		6.40	10.9	16.1	12.2	46.8	33.2	19.9	24.1	72.6	17.5
30	6.28		4.08	7.25	14.5	17.6	45.0	25.4	18.7	17.4	59.3	15.4
31	6.25		3.55		12.3		26.6	29.9		17.7		13.9

Caudal	es	extr	em	os

		Ouuc	adioo omiloi	1100								
	Máximos	instantáneos	3	ľ	Mínimos diari	os	(Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	8	9.84	38.1	31	9.13	6.25		8.50	23.3		22.8	62.3
Feb	6	9.27	10.1	25	9.05	3.65		4.93	13.5		11.9	32.7
Mar	28	9.71	31.7	20	9.01	2.59		3.72	10.2		10.0	27.3
Abr	26	9.92	41.7	6	9.02	2.88		6.01	16.5		15.6	42.7
May	6	10.68	79.5	3	9.12	5.23		17.2	47.0		46.0	126
Jun	23	11.43	117	14	9.28	10.7		17.4	47.8		45.2	124
Jul	14	13.68	230	3	9.28	10.6		30.9	84.7		82.8	227
Ago	25	13.79	235	14	9.43	17.2		36.0	98.7		96.5	264
Sep	8	13.55	224	27	9.38	14.8		30.0	82.1		77.6	213
Oct	27	13.31	211	23	9.24	9.24		18.0	49.4		48.3	132
Nov	21	21.34	624	2	9.36	14.0		83.3	228		216	592
Dic	13	11.60	125	24	9.36	13.7		28.7	78.5		76.8	210
Anual	21	21.34	624	20	9.01	2.59	Promedio	23.7	65.0	Total	749	2053

Nota 1 : Los valores en negrita fueron estimados mediante correlación con la estación El Chorro

Nota 2: El nivel máximo registrado durante la crecida del 21 de noviembre de 2006 se determinación por levantamiento topográfico



ESTACIÓN BOCA DE URACILLO EN EL RÍO INDIO Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

	D 00 EQL 22"											
	D 8º 58' 33"		ONGITUI			Año:	2006			Prenaje:		
DÍA		IERO		RERO		ARZO	ABI			IAYO		JNIO
1	mg/l 10.4	t/d 7.91	mg/l 9.7	t/d 6.06	mg/l 8.3	t/d 3.20	mg/l 7.5	t/d 2.17	mg/l 9.1	t/d 4.67	mg/l 83.7	t/d 212
2	10.3	7.63	10.0	6.60	8.0	2.79	7.7	2.40	8.8	4.10	23.1	33.0
3	10.2	7.37	9.1	4.68	8.2	2.98	7.5	2.11	8.8	3.95	49.2	93.2
4 5	10.1 10.2	7.12 7.23	8.9 9.2	4.24 4.80	8.0 7.8	2.77 2.45	7.3 7.3	1.89 1.88	97.0 46.5	205 93.3	38.9 28.1	73.4 45.1
6	10.2	8.93	10.0	6.61	7.6 7.6	2.43	7.3 7.2	1.78	178.5	791	17.3	20.7
7	13.6	12.8	9.1	4.66	7.6	2.23	7.5	2.13	47.0	93.9	27.0	35.2
8	41.6	79.7	8.9	4.18	7.5	2.12	7.4	1.97	77.5	135	32.9	54.3
9 10	27.5 11.5	39.3 10.4	8.7 8.6	3.86 3.72	7.4 7.3	2.01 1.94	7.3 21.3	1.86 25.0	41.4 15.7	74.3 17.5	15.5 18.0	17.3 21.7
11	10.6	8.56	8.5	3.59	7.3	1.88	12.0	8.90	12.6	12.2	18.7	23.2
12	10.4	7.81	8.6	3.64	7.2	1.80	11.5	8.92	51.4	93.2	13.2	13.3
13 14	10.2 10.1	7.26 6.91	8.7 8.5	3.79 3.56	7.1 7.1	1.73 1.68	8.6 8.0	3.69 2.75	11.9 10.5	11.0 8.25	11.8 11.5	11.1 10.7
15	10.1	6.76	8.6	3.61	7.1	1.63	7.7	2.73	10.3	7.41	30.1	37.5
16	9.9	6.39	8.4	3.42	7.1	1.67	7.7	2.31	10.9	8.64	45.4	90.3
17	10.0	6.76	8.3	3.19	7.1	1.68	7.6	2.19	10.6	8.55	40.6	78.6
18 19	9.9 9.8	6.38 6.14	8.2 8.1	3.07 2.96	7.0 7.0	1.60 1.59	7.4 7.4	2.06 2.00	38.5 83.6	45.7 250	29.2 22.5	48.4 31.8
20	9.7	5.93	8.1	2.83	6.9	1.55	7.4	2.51	28.2	45.7	16.4	19.1
21	9.5	5.57	7.9	2.68	7.1	1.72	7.6	2.21	18.9	23.8	36.7	60.4
22	9.4	5.32	7.9	2.63	7.1	1.67	7.4	2.07	45.4	74.6	18.8	23.4
23 24	9.6 9.5	5.79 5.49	7.9 7.8	2.61 2.51	6.9 7.8	1.56 2.42	9.8 10.8	4.51 8.87	39.9 27.0	76.8 41.1	143.3 143.8	218 397
25	9.3	5.14	7.8	2.45	8.9	4.21	16.9	18.3	17.7	21.4	45.7	86.4
26	9.3	5.11	7.8	2.50	8.1	2.88	46.4	82.2	27.0	41.5	30.0	48.0
27 28	9.4 9.4	5.16 5.25	7.9 7.9	2.63 2.59	7.4 28.7	1.98 31.5	13.7 10.0	12.8 6.66	42.2 58.5	85.1 112	23.2 17.1	32.5 20.3
29	9.4	5.23	7.9	2.59	9.5	5.24	12.6	11.9	22.0	30.6	14.1	14.9
30	9.3	5.05			8.1	2.84	9.8	6.11	18.6	23.2	47.0	71.7
31 Tatal	9.3	5.02 316		404	7.7	2.36		237	14.4	15.3 2459		1943
Total		310		104		100		231		2459		1943
DÍA	JULIO		AGOSTO		EPTIEMI		CTUBRE		NOVIEME		DICIEMBE	
	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
DÍA 1 2												
1 2 3	mg/l 20.7 12.4 11.3	t/d 26.2 12.0 10.3	mg/l 32.7 118.0 41.8	t/d 58.9 358 86.0	mg/l 103.3 63.7 97.2	t/d 330 163 329	mg/l 18.7 25.3 160.8	t/d 23.5 34.0 521	mg/l 56.9 17.6 29.2	t/d 113 21.2 39.2	mg/l 252.1 130.3 94.0	t/d 1554 564 332
1 2 3 4	mg/l 20.7 12.4 11.3 496.0	t/d 26.2 12.0 10.3 2157	mg/l 32.7 118.0 41.8 32.3	t/d 58.9 358 86.0 57.4	mg/l 103.3 63.7 97.2 133.8	t/d 330 163 329 533	mg/l 18.7 25.3 160.8 26.9	t/d 23.5 34.0 521 41.4	mg/l 56.9 17.6 29.2 1501.2	t/d 113 21.2 39.2 6193	mg/l 252.1 130.3 94.0 80.0	t/d 1554 564 332 256
1 2 3 4 5	mg/l 20.7 12.4 11.3 496.0 104.3	t/d 26.2 12.0 10.3 2157 298	mg/l 32.7 118.0 41.8 32.3 39.0	t/d 58.9 358 86.0 57.4 77.3	mg/l 103.3 63.7 97.2 133.8 107.3	t/d 330 163 329 533 382	mg/l 18.7 25.3 160.8 26.9 19.3	t/d 23.5 34.0 521 41.4 24.7	mg/l 56.9 17.6 29.2 1501.2 548.8	t/d 113 21.2 39.2 6193 2118	mg/l 252.1 130.3 94.0 80.0 74.4	t/d 1554 564 332 256 227
1 2 3 4 5 6 7	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0	t/d 26.2 12.0 10.3 2157 298 26.5 21.8	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5	t/d 330 163 329 533 382 677 474	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4	t/d 113 21.2 39.2 6193 2118 134 292	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7	t/d 1554 564 332 256 227 216 171
1 2 3 4 5 6 7 8	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1	58.9 358 86.0 57.4 77.3 60.6 41.6 540	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8	t/d 330 163 329 533 382 677 474 3938	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6	t/d 113 21.2 39.2 6193 2118 134 292 206	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5	t/d 1554 564 332 256 227 216 171 120
1 2 3 4 5 6 7 8 9	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7	t/d 330 163 329 533 382 677 474 3938 602	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6	t/d 113 21.2 39.2 6193 2118 134 292 206 126	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7	1/d 1554 564 332 256 227 216 171 120 141
1 2 3 4 5 6 7 8	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1	58.9 358 86.0 57.4 77.3 60.6 41.6 540	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9	t/d 330 163 329 533 382 677 474 3938	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7	t/d 113 21.2 39.2 6193 2118 134 292 206	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8	1/d 1554 564 332 256 227 216 171 120 141 155
1 2 3 4 5 6 7 8 9 10 11	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8	t/d 1554 564 332 256 227 216 171 120 141 155 598 232
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7	t/d 1554 564 332 256 227 216 171 120 141 155 598 232 621
1 2 3 4 5 6 7 8 9 10 11 12 13 14	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 36.1	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7	t/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 231 7559 1855	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3	t/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 231 7559 1855	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3	t/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 9.38	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7	58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 231 7559 1855 822 259 1354 407 113	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 6 9.38 8.81	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4	t/d 113 21.2 39.2 6193 2118 134 292 206 126 126 127 67.5 35.7 6859 159 101 213 163328 73146	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3	1/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 231 7559 1855 822 259 1354 407 113 96.5	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 10.6 9.38 8.81 8.44	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 10.6 9.38 8.81 8.44 10.3 12.8	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9	t/d 113 21.2 39.2 6193 2118 134 292 206 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 82.17.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5	1/d 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2 176.1	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 9.38 8.81 8.44 10.3 12.8 58.4	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7	### 1554 1554 1564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2 176.1 114.7	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644 399	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7 78.4	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 540 58.0 37.4 628 546 48.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285 247	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0 19.0	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7 24.2	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5 710.3	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 9.38 8.81 8.44 10.3 12.8 58.4 3282	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9 639.7	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264 6229	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7	## 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9 896
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2 176.1	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 9.38 8.81 8.44 10.3 12.8 58.4	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7	## 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 176.1 114.7 94.1 245.2 151.1	## 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644 399 251 991 588	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7 78.4 64.3 70.8 44.5	**t/d** 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285 247 177 203 97.6	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0 19.0 19.6	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7 24.2 25.4	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5 710.3 192.9 50.0 27.4	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 9.38 8.81 8.81 10.3 12.8 58.4 3282 824 104 41.1	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 82.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9 639.7 342.3	t/d 113 21.2 39.2 6193 2118 134 292 206 126 126 126 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264 6229 2573	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 8217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7 194.7 46.6 25.0 20.5	## 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9 896 99.8 37.9 27.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2 176.1 114.7 94.1 245.2	## 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644 399 251 991 588 117	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7 78.4 64.3 70.8	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285 247 177 203 97.6 241	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0 19.0 19.6 37.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7 24.2 25.4 63.8 49.0	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5 710.3 192.9 50.0	t/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 10.6 9.38 8.81 8.44 10.3 12.8 58.4 3282 824 104 41.1 59.7	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9 639.7 342.3 260.9	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264 6229 2573 1636 904	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7 194.7 46.6 25.0	1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9 896 99.8 37.9 27.3 20.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 84.2 176.1 114.7 94.1 245.2 151.1 50.7	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644 399 251 991 588 117 15142	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7 78.4 64.3 70.8 44.5 93.2	**t/d** 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285 247 177 203 97.6	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0 19.0 19.6 37.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7 24.2 25.4 63.8 49.0	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5 710.3 192.9 50.0 27.4 39.1	1/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 10.6 9.38 8.81 8.44 10.3 12.8 58.4 82.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9 639.7 342.3 260.9	t/d 113 21.2 39.2 6193 2118 134 292 206 109 144 207 102 177 67.5 35.7 6859 101 213 163328 73146 70300 33663 11723 6264 6229 2573 1636 904	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7 194.7 46.6 25.0 20.5 17.3	## 1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9 896 99.8 37.9 27.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 20.7 12.4 11.3 496.0 104.3 20.1 18.0 220.5 81.4 30.5 36.9 25.9 35.3 652.6 47.1 33.2 28.8 54.3 167.2 76.2 86.3 324.8 64.0 39.2 176.1 114.7 94.1 245.2 151.1	t/d 26.2 12.0 10.3 2157 298 26.5 21.8 945 223 52.1 69.4 38.9 64.4 4393 105 60.3 47.6 106 516 198 177 2141 174 79.0 210 644 399 251 991 588 117 15142	mg/l 32.7 118.0 41.8 32.3 39.0 33.4 26.5 154.1 32.5 24.8 208.0 155.8 28.9 24.3 97.3 803.3 320.1 169.1 82.1 310.8 117.1 48.7 44.3 124.3 808.6 381.7 78.4 64.3 70.8 44.5	t/d 58.9 358 86.0 57.4 77.3 60.6 41.6 58.0 37.4 628 546 48.1 36.1 231 7559 1855 822 259 1354 407 113 96.5 369 4475 2285 247 177 203 97.6 241	mg/l 103.3 63.7 97.2 133.8 107.3 160.0 120.5 632.8 152.7 59.9 66.2 42.8 34.5 39.5 51.7 34.6 200.7 75.1 57.3 121.3 60.1 43.6 27.1 23.7 21.7 22.0 19.0 19.6 37.1	t/d 330 163 329 533 382 677 474 3938 602 157 177 91.2 64.3 77.7 120 63.7 522 208 131 387 150 90.6 43.4 34.8 30.1 30.7 24.2 25.4 63.8 49.0	mg/l 18.7 25.3 160.8 26.9 19.3 15.8 14.6 13.7 17.0 49.5 18.0 34.5 33.8 41.0 27.3 21.8 17.4 21.0 13.6 11.5 10.9 10.7 10.6 11.8 13.0 40.5 710.3 192.9 50.0 27.4	1/d 23.5 34.0 521 41.4 24.7 18.0 15.8 14.1 19.5 82.9 21.9 48.3 57.8 81.3 43.6 29.8 20.8 27.7 14.0 10.6 9.38 8.81 8.44 10.3 12.8 58.4 82.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10	mg/l 56.9 17.6 29.2 1501.2 548.8 67.9 88.4 72.6 53.6 51.7 57.2 71.4 45.7 66.9 35.8 24.1 1047.8 61.7 47.4 72.8 4961.3 2614.4 2502.6 1655.8 838.9 565.9 639.7 342.3 260.9	t/d 113 21.2 39.2 6193 2118 134 292 206 126 109 144 207 102 177 67.5 35.7 6859 159 101 213 163328 73146 70300 33663 11723 6264 6229 2573 1636 904	mg/l 252.1 130.3 94.0 80.0 74.4 72.3 62.7 50.5 56.7 59.8 170.8 82.8 217.7 193.1 59.2 41.3 30.3 25.7 23.0 22.2 20.3 19.8 18.3 17.0 24.5 24.7 194.7 46.6 25.0 20.5 17.3	1554 564 332 256 227 216 171 120 141 155 598 232 621 901 156 85.6 52.0 39.8 33.2 31.3 26.9 26.0 22.8 20.1 34.7 34.9 896 99.8 37.9 27.3 20.7

os Suspendidos (mg/l)
Promedio Anual: 607.2 Mínimo Diario: 6.9 Máximo Diario: 4961.3 Máxima Instantánea 6619.1

Estación Tres Hermanas en el Río Indio





LOCALIZACIÓN: La estación está a 1.2 km (0.74 mi) aguas abajo del cerro Tres Hermanas, en la provincia de Coclé. Sus coordenadas geográficas son: 9° 00' 07" de latitud Norte y 80° 10' 52" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 111-01-03

ÁREA DE DRENAJE: 383 km² (148 mi²)

PERIODO DE REGISTRO: Desde marzo del 2004 hasta noviembre de 2006.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevació	n mínim	a diaria		ıdal imo rio	Cau prom ant	nedio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	63.82	19.45	18939 536		23/mar.	14.12	4.30	117	3.30	943	26.7

Nota: No se ha definido la curva de sedimentos suspendidos.

ESTACIÓN TRES HERMANAS EN EL RÍO INDIO Caudales promedios diarios en pie³/s

Sensor: 3511 Año: 2006

Latitud: 9° 00' 07" N Årea de drenaje: 148 mi²
Longitud: 80° 10' 52" O Elevación: 39.7 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	346	271	196	146	227	1443	607	858	1699	607	1007	2779
2	336	316	178	155	201	682	432	1371	1117	614	567	1958
3	326	249	186	143	192	839	407	1029	1496	1486	628	1606
4	318	225	177	131	1037	892	1613	862	1844	771	1869	1455
5	318	245	163	131	1119	761	1610	974	1594	616	1751	1391
6	378	330	156	126	2143	538	614	931	1998	545	912	1365
7	425	258	153	141	1123	546	539	773	1802	520	1504	1248
8	853	237	148	135	682	778	1664	1893	2460	513	1295	1090
9	709	222	139	129	906	496	1418	909	2337	560	1081	1139
10	413	215	135	533	508	523	786	734	1204	825	966	1182
11	365	209	130	345	442	545	839	1153	1268	621	1153	1590
12	340	212	128	389	801	446	683	1883	1003	625	1322	1279
13	322	220	124	214	427	414	836	816	890	924	1020	1302
14	308	210	122	169	365	406	2829	733	902	967	1207	2110
15	302	212	120	153	339	502	1057	959	1063	804	870	1202
16	289	201	122	144	366	829	840	3434	910	670	690	954
17	301	190	123	136	380	831	776	3014	1001	590	2950	794
18	289	185	120	129	474	724	838	2520	1431	642	1179	719
19	281	181	119	127	1356	629	1248	1597	1042	514	978	672
20	272	177	117	145	775	498	1350	1632	1411	458	1334	657
21	258	172	126	135	588	669	813	1844	1227	431	14718	622
22	249	170	122	129	702	548	3022	1078	995	413	12513	614
23	266	168	117	224	871	483	1347	1013	766	402	12563	584
24	255	164	155	402	711	1319	956	1331	699	430	9101	557
25	242	161	235	540	558	845	1145	1716	658	486	6264	660
26	239	162	180	818	670	693	1720	3595	666	613	4968	658
27	243	169	138	440	935	608	1823	1898	604	1531	4374	2081
28	246	166	495	310	854	515	1144	1211	616	2271	3382	985
29	272		290	445	657	462	1621	1313	759	1051	2826	704
30	239		179	284	575	603	1899	1019	815	712	2314	624
31	236		155		480		1141	1301		809		564

Caudales extremos

		Cauc	iales extrei	1103								
	Máximos	Instantáneos	3	N	/línimos Diari	ios	(Caudales	Promedios		Escori	entía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Men pie ³ /s	suales pie ³ /s/mi ²		Acre-pie	plg
Ene	8	19.95	1340	31	15.05	236		330	2.23		20306	2.6
Feb	6	15.98	396	25	14.46	161		211	1.42		11696	1.5
Mar	28	18.81	1031	23	14.12	117		163	1.10		10009	1.3
Abr	26	20.09	1379	6	14.19	126		248	1.68		14771	1.9
May	6	25.89	3232	3	14.67	192		692	4.68		42574	5.4
Jun	24	25.54	3113	14	16.01	406		669	4.52		39804	5.0
Jul	14	32.61	5653	3	16.01	407		1213	8.20		74607	9.5
Ago	16	34.79	6484	14	17.61	733		1464	9.89		90038	11.4
Sep	8	33.77	6093	27	17.05	604		1209	8.17		71962	9.1
Oct	27	31.95	5406	23	15.99	402		743	5.02		45659	5.8
Nov	21	63.82	18939	2	16.16	567		3244	21.9		193007	24.5
Dic				24	16.12	557		1134	7.66		69710	8.8
Anual	21	63.82	18939	23	14.12	117	Promedio	943	6.37	Total	684143	86.7

Nota 1: Los valores en negrita fueron estimados mediante correlación con la estación Boca de Uracillo

Nota 2: El Nivel máximo de la crecida del 21 de noviembre de 2006 fue estimado mediante levantamiento topográfico

ESTACIÓN TRES HERMANAS EN EL RÍO INDIO Caudales promedios diarios en m³/s

Sensor: 3511 Año: 2006

Latitud: 9° 00' 07" N

Longitud: 80° 10' 52" O

Area de drenaje: 383 km²
Elevación: 12.1 m

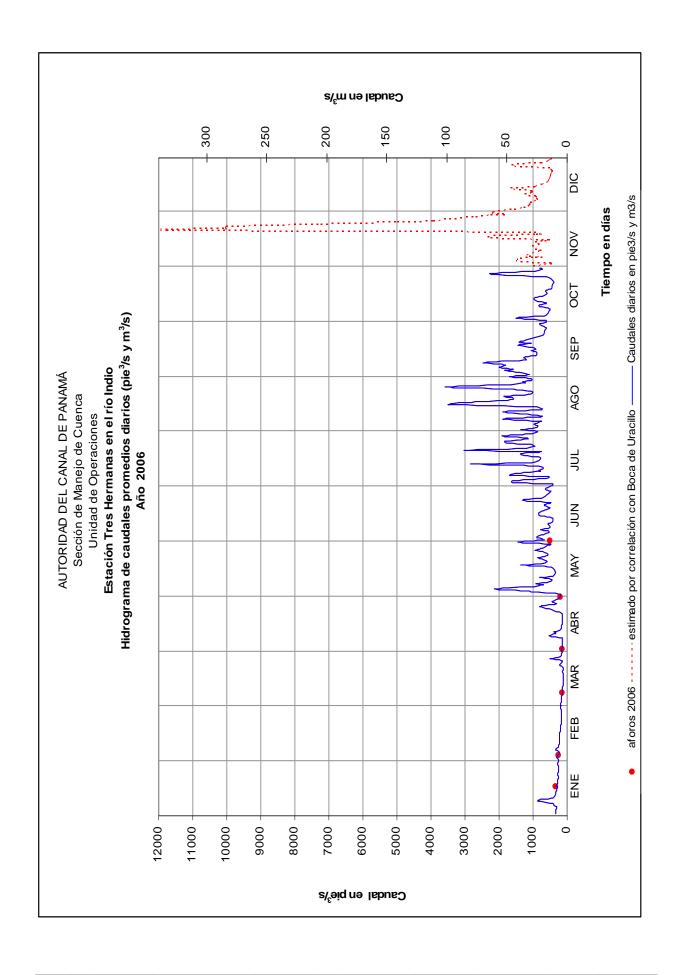
DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	9.79	7.69	5.55	4.13	6.43	40.9	17.2	24.3	48.1	17.2	28.5	78.7
2	9.51	8.96	5.04	4.38	5.69	19.3	12.2	38.8	31.6	17.4	16.1	55.5
3	9.24	7.06	5.27	4.06	5.42	23.8	11.5	29.2	42.4	42.1	17.8	45.5
4	9.01	6.36	5.02	3.72	29.4	25.3	45.7	24.4	52.2	21.8	52.9	41.2
5	9.01	6.93	4.62	3.71	31.7	21.6	45.6	27.6	45.1	17.4	49.6	39.4
6	10.7	9.34	4.41	3.57	60.7	15.2	17.4	26.4	56.6	15.4	25.8	38.6
7	12.0	7.30	4.34	3.99	31.8	15.5	15.3	21.9	51.0	14.7	42.6	35.3
8	24.2	6.71	4.18	3.83	19.3	22.0	47.1	53.6	69.7	14.5	36.7	30.9
9	20.1	6.28	3.95	3.64	25.6	14.1	40.2	25.8	66.2	15.9	30.6	32.3
10	11.7	6.09	3.82	15.1	14.4	14.8	22.3	20.8	34.1	23.4	27.4	33.5
11	10.3	5.92	3.69	9.78	12.5	15.4	23.8	32.7	35.9	17.6	32.6	45.0
12	9.62	6.00	3.61	11.0	22.7	12.6	19.4	53.3	28.4	17.7	37.5	36.2
13	9.13	6.22	3.52	6.07	12.1	11.7	23.7	23.1	25.2	26.2	28.9	36.9
14	8.73	5.95	3.45	4.79	10.3	11.5	80.1	20.8	25.5	27.4	34.2	59.8
15	8.56	5.99	3.40	4.34	9.59	14.2	29.9	27.2	30.1	22.8	24.6	34.0
16	8.20	5.70	3.46	4.08	10.4	23.5	23.8	97.2	25.8	19.0	19.5	27.0
17	8.54	5.38	3.47	3.85	10.8	23.5	22.0	85.4	28.3	16.7	83.5	22.5
18	8.20	5.24	3.39	3.66	13.4	20.5	23.7	71.4	40.5	18.2	33.4	20.4
19	7.95	5.12	3.36	3.59	38.4	17.8	35.3	45.2	29.5	14.6	27.7	19.0
20	7.71	5.01	3.32	4.10	21.9	14.1	38.2	46.2	40.0	13.0	37.8	18.6
21	7.30	4.87	3.56	3.82	16.6	18.9	23.0	52.2	34.8	12.2	417	17.6
22	7.05	4.81	3.45	3.64	19.9	15.5	85.6	30.5	28.2	11.7	354	17.4
23	7.53	4.75	3.30	6.35	24.7	13.7	38.1	28.7	21.7	11.4	356	16.5
24	7.22	4.65	4.38	11.4	20.1	37.4	27.1	37.7	19.8	12.2	258	15.8
25	6.85	4.57	6.65	15.3	15.8	23.9	32.4	48.6	18.6	13.8	177	18.7
26	6.78	4.60	5.11	23.2	19.0	19.6	48.7	102	18.9	17.3	141	18.6
27	6.88	4.79	3.90	12.4	26.5	17.2	51.6	53.8	17.1	43.4	124	58.9
28	6.96	4.71	14.0	8.78	24.2	14.6	32.4	34.3	17.4	64.3	95.8	27.9
29	7.71		8.22	12.6	18.6	13.1	45.9	37.2	21.5	29.8	80.0	20.0
30	6.77		5.06	8.05	16.3	17.1	53.8	28.9	23.1	20.2	65.5	17.7
31	6.69		4.39		13.6		32.3	36.8		22.9		16.0

Caudales extremos

	Máximos	instantáneos	3	N	Mínimos diari	os	(Caudales	promedios		Escoi	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m³/s		m ³ /s	l/s/km ²		MMC	mm
Ene	8	6.08	37.9	31	4.59	6.69		9.35	24.4		25.1	65.4
Feb	6	4.87	11.2	25	4.41	4.57		5.96	15.6		14.4	37.7
Mar	28	5.73	29.2	23	4.30	3.30		4.61	12.0		12.3	32.2
Abr	26	6.12	39.1	6	4.33	3.57		7.03	18.4		18.2	47.6
May	6	7.89	91.5	3	4.47	5.42		19.6	51.2		52.5	137
Jun	24	7.78	88.2	14	4.88	11.5		18.9	49.5		49.1	128
Jul	14	9.94	160	3	4.88	11.5		34.4	89.7		92.0	240
Ago	16	10.60	184	14	5.37	20.8		41.5	108		111	290
Sep	8	10.29	173	27	5.20	17.1		34.2	89.4		88.8	232
Oct	27	9.74	153	23	4.87	11.4		21.0	54.9		56.3	147
Nov	21	19.45	536	2	4.93	16.1		91.9	240		238	622
Dic				24	4.91	15.8		32.1	83.8		86.0	225
Anual	21	19.45	536	23	4.30	3.30	Promedio	26.7	69.8	Total	844	2204

Nota 1: Los valores en negrita fueron estimados mediante correlación con la estación Boca de Uracillo

Nota 2: El Nivel máximo de la crecida del 21 de noviembre de 2006 fue estimado mediante levantamiento topográfico



Estación El Silencio en el Río Indio



LOCALIZACIÓN: La estación se encuentra en el curso principal del río Indio, aguas debajo de la confluencia con la quebrada Las Claras, aproximadamente 1 km. (0.62 mi), cercana al poblado Las Claras Abajo, en el distrito de Penonomé, provincia de Coclé. Sus coordenadas geográficas son: 08° 52' 04" de latitud Norte y 80° 10' 10" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 111-01-04

ÁREA DE DRENAJE: 111 km² (42.86 mi²)

PERIODO DE REGISTRO: Desde el 1 de enero de 2006 hasta la fecha.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal i	máximo táneo	Elevacio	ón mínim	a diaria	Cau mín dia		Cau prom ant	edio
día/mes	ía/mes pie m pie ³ /		pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
			23/mar.	348.11	106.10	38.7	1.09	239	6.77		

Nota: No se ha definido la curva de sedimentos suspendidos.

ESTACIÓN EL SILENCIO EN EL RÍO INDIO Caudales promedios diarios en pie³/s

Sensor Año: 2006

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	96.9	100	58.8	64.6	83.0	196	182	214	354	159	233	652
2	97.2	100	53.0	74.6	75.9	178	166	338	290	169	155	467
3	97.6	82.5	60.2	60.9	73.8	181	165	240	373	358	168	388
4	93.6	75.5	55.9	56.6	125	165	248	212	433	188	447	354
5	91.6	81.3	52.7	55.0	149	164	269	232	390	162	421	340
6	101	113	52.3	53.1	351	135	181	216	458	147	232	334
7	105	83.1	50.6	62.0	179	137	224	191	428	142	365	308
8	213	75.1	48.8	53.9	190	133	680	385	658	137	318	272
9	144	71.3	47.1	57.8	197	124	348	212	429	148	270	283
10	106	67.2	45.1	192	143	205	278	185	296	202	244	293
11	97.7	66.3	43.4	155	222	170	258	336	302	156	286	384
12	92.9	70.1	42.7	134	282	134	306	385	247	174	324	314
13	90.0	67.9	42.6	85.8	148	126	315	200	221	205	256	320
14	86.9	65.7	41.9	72.4	124	127	709	183	231	232	298	501
15	83.4	65.9	41.7	67.2	119	210	257	271	267	194	223	297
16	81.9	61.4	40.5	64.4	119	293	216	977	218	171	182	241
17	90.0	59.6	40.3	60.5	118	213	199	615	295	153	690	206
18	83.1	58.8	40.3	57.9	108	220	230	521	312	166	292	189
19	80.4	57.6	40.7	57.4	235	175	343	350	263	137	247	178
20	78.1	55.8	41.6	92.6	153	154	294	470	353	126	327	175
21	74.9	53.8	40.3	68.4	145	147	239	382	283	120	3336	167
22	73.7	53.1	39.7	61.7	194	138	695	266	242	116	2840	165
23	78.5	52.1	38.7	78.7	185	338	306	252	194	114	2851	158
24	75.1	51.6	54.7	164	151	405	236	331	181	121	2073	152
25	68.1	51.1	80.9	210	135	335	284	589	173	132	1435	175
26	69.3	52.8	57.1	299	251	317	400	634	173	178	1144	175
27	70.3	55.3	44.0	131	256	265	382	350	161	497	1010	495
28	85.4	56.3	319	117	172	225	301	309	164	462	787	248
29	102		102	158	157	200	439	321	206	242	662	185
30	77.2		72.3	97.0	150	223	424	254	196	184	547	167
31	83.6		67.4		132		264	292		187		154

Cau	ıdales	extr	emos

		Caa	adios extici	1100								
	Máximos Instantáneos		N	∕línimos Diari	os		Caudales	Promedios		Escori	rentía	
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	8	350.50	588	25	348.42	68.1		92.5	2.16		5690	2.5
Feb	6	348.96	146	25	348.25	51.1		68.0	1.59		3777	1.7
Mar	28	351.94	1198	23	348.11	38.7		59.9	1.40		3681	1.6
Abr	25	351.29	912	6	348.27	53.1		98.7	2.30		5875	2.6
May	11	352.53	1471	3	348.47	73.8		165	3.86		10162	4.4
Jun	23	352.66	1533	9	348.82	124		201	4.69		11968	5.2
Jul	8	352.88	1638	3	349.06	165		317	7.41		19514	8.5
Ago				14	349.15	183		346	8.06		21249	9.3
Sep				27	349.04	161		293	6.84		17436	7.6
Oct				23	348.76	114		190	4.42		11658	5.1
Nov				2	349.01	155		755	17.6		44954	19.7
Dic				24	348.99	152		282	6.58		17332	7.6
Anual				23	348.11	38.7	Promedio	239	5.58	Total	173296	75.8

Nota 1 Los valores en negrita fueron estimados por correlación con la estación Boca de Uracillo

Nota 2 La crecida del 14 de julio dañó el equipo registrador de nivel

ESTACIÓN EL SILENCIO EN EL RÍO INDIO Caudales promedios diarios en m³/s

Sensor Año: 2006

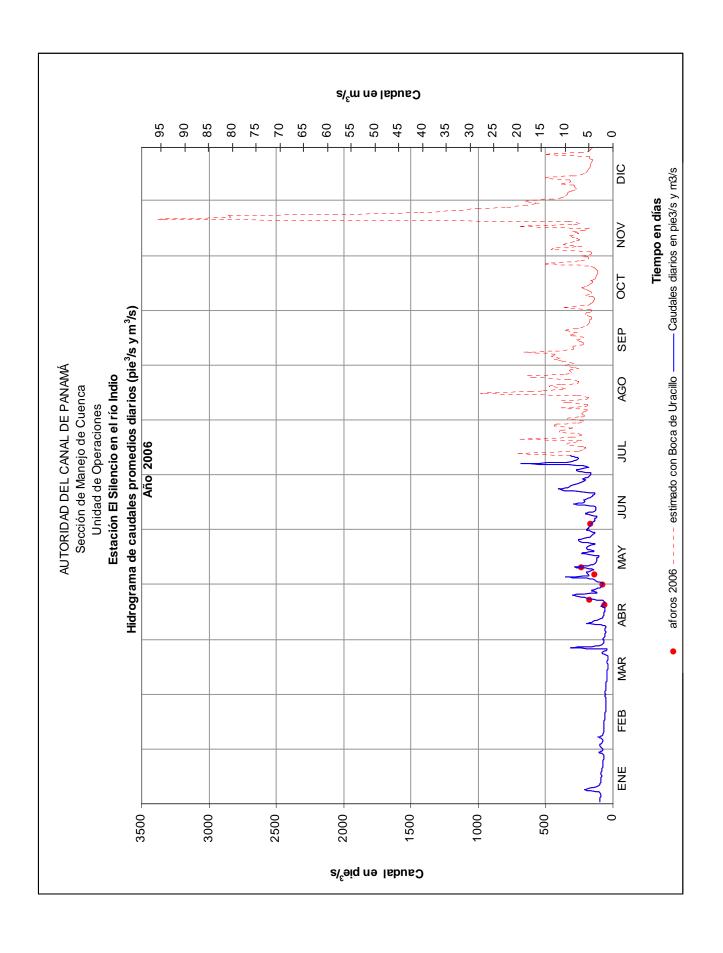
Latitud: 8° 52' 04" N Área de drenaje:111 km²
Longitud: 80° 10' 10" O Elevación: 135 m

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	2.74	2.82	1.67	1.83	2.35	5.56	5.14	6.06	10.0	4.52	6.60	18.5
2	2.75	2.83	1.50	2.11	2.15	5.04	4.71	9.58	8.20	4.77	4.38	13.2
3	2.77	2.34	1.71	1.72	2.09	5.14	4.69	6.79	10.6	10.1	4.76	11.0
4	2.65	2.14	1.58	1.60	3.54	4.68	7.03	6.00	12.3	5.32	12.7	10.0
5	2.59	2.30	1.49	1.56	4.22	4.66	7.61	6.58	11.1	4.58	11.9	9.62
6	2.85	3.21	1.48	1.50	9.93	3.82	5.12	6.11	13.0	4.17	6.57	9.45
7	2.97	2.35	1.43	1.76	5.08	3.88	6.35	5.42	12.1	4.01	10.3	8.71
8	6.04	2.13	1.38	1.53	5.39	3.75	19.3	10.9	18.6	3.88	9.01	7.71
9	4.08	2.02	1.33	1.64	5.57	3.50	9.86	6.01	12.2	4.20	7.65	8.02
10	3.01	1.90	1.28	5.43	4.04	5.81	7.86	5.23	8.39	5.71	6.91	8.29
11	2.77	1.88	1.23	4.39	6.29	4.80	7.31	9.52	8.56	4.42	8.10	10.9
12	2.63	1.99	1.21	3.79	8.00	3.78	8.67	10.9	7.00	4.92	9.18	8.91
13	2.55	1.92	1.21	2.43	4.20	3.56	8.92	5.68	6.25	5.81	7.26	9.05
14	2.46	1.86	1.19	2.05	3.52	3.61	20.1	5.17	6.54	6.58	8.45	14.2
15	2.36	1.87	1.18	1.90	3.36	5.94	7.28	7.68	7.56	5.48	6.30	8.42
16	2.32	1.74	1.15	1.83	3.36	8.29	6.11	27.7	6.18	4.83	5.16	6.84
17	2.55	1.69	1.14	1.71	3.36	6.02	5.64	17.4	8.34	4.33	19.5	5.82
18	2.35	1.67	1.14	1.64	3.05	6.24	6.51	14.8	8.83	4.71	8.27	5.34
19	2.28	1.63	1.15	1.63	6.67	4.97	9.72	9.91	7.46	3.87	6.99	5.04
20	2.21	1.58	1.18	2.62	4.34	4.35	8.33	13.3	10.0	3.57	9.26	4.95
21	2.12	1.52	1.14	1.94	4.12	4.16	6.77	10.8	8.03	3.40	94.5	4.72
22	2.09	1.50	1.12	1.75	5.50	3.91	19.7	7.54	6.84	3.29	80.4	4.67
23	2.22	1.48	1.09	2.23	5.25	9.58	8.66	7.13	5.49	3.22	80.7	4.48
24	2.13	1.46	1.55	4.65	4.27	11.5	6.67	9.4	5.12	3.42	58.7	4.31
25	1.93	1.45	2.29	5.94	3.82	9.48	8.05	16.7	4.89	3.74	40.6	4.97
26	1.96	1.50	1.62	8.48	7.10	8.99	11.3	18.0	4.90	5.05	32.4	4.96
27	1.99	1.57	1.25	3.71	7.24	7.51	10.8	9.90	4.57	14.1	28.6	14.0
28	2.42	1.59	9.02	3.31	4.88	6.38	8.52	8.75	4.64	13.1	22.3	7.04
29	2.89		2.90	4.48	4.44	5.68	12.4	9.09	5.83	6.86	18.8	5.25
30	2.19		2.05	2.75	4.25	6.31	12.0	7.18	5.55	5.21	15.5	4.74
31	2.37		1.91		3.73		7.48	8.28		5.28		4.35

Cau		\sim	0 V/t	ron	
Cat.	luai	25	UΧL	геп	105

		Cauc	Jaies exile	11105								
	Máximos	instantáneos	3	N	Mínimos diari	os	(Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m³/s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	8	106.83	16.7	25	106.20	1.93		2.62	23.6		7.02	63.2
Feb	6	106.36	4.15	25	106.15	1.45		1.93	17.3		4.66	42.0
Mar	28	107.27	33.9	23	106.10	1.09		1.70	15.3		4.54	40.9
Abr	25	107.07	25.8	6	106.15	1.50		2.80	25.2		7.25	65.3
May	11	107.45	41.7	3	106.21	2.09		4.68	42.2		12.5	113
Jun	23	107.49	43.4	9	106.32	3.50		5.70	51.3		14.8	133
Jul	8	107.56	46.4	3	106.39	4.69		8.99	81.0		24.1	217
Ago				14	106.42	5.17		9.79	88.2		26.2	236
Sep				27	106.39	4.57		8.30	74.8		21.5	194
Oct				23	106.30	3.22		5.37	48.4		14.4	130
Nov				2	106.38	4.38		21.4	193		55.5	500
Dic				24	106.37	4.31		7.98	71.9		21.4	193
Anual				23	106.10	1.09	Promedio	6.77	61.0	Total	214	1926

Nota 1 Los valores en negrita fueron estimados por correlación con la estación Boca de Uracillo Nota 2 La crecida del 14 de julio dañó el equipo registrador de nivel



Estación Las Marías en el Río Uracillo





LOCALIZACIÓN: La estación está a 10 kilómetros (6.21 millas) aguas arribas de la confluencia con el río Indio, en la comunidad de Las Marías, Corregimiento de río Indio, Distrito de Penonomé en la provincia de Coclé. Sus coordenadas geográficas son: 8° 53' 45" de latitud Norte y 80° 13' 17" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 111-02-01

ÁREA DE DRENAJE: 46.7 km² (18 mi²)

PERIODO DE REGISTRO: Desde septiembre del 2004 hasta noviembre de 2006.

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevacio	ón mínim	a diaria	mín	ıdal imo ırio	Cau prom and	nedio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	452.00	137.77	4733	134	20/mar.	437.97	133.49	12.8	0.361	114	3.24

Nota: No se ha definido la curva de sedimentos suspendidos.

ESTACIÓN LAS MARÍAS EN EL RÍO URACILLO Caudales promedios diarios en pie³/s

Sensor Año: 2006

Latitud: 8° 53′ 45″ N Área de drenaje: 18.0 mi²
Longitud: 80° 13′ 17″ O Elevación: 574 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	43.2	87.1	22.7	16.0	26.5	63.7	85.3	133	217	87.5	221	336
2	42.4	77.9	20.4	15.4	24.0	55.6	62.2	132	131	81.5	115	235
3	41.4	30.8	19.4	15.1	22.7	62.9	58.8	122	126	100	124	192
4	40.4	28.7	19.4	14.4	69.4	71.4	277	114	147	84.9	118	174
5	43.3	29.0	18.3	13.7	90.6	87.1	167	130	150	76.0	94.1	166
6	50.6	29.9	17.3	13.3	201	57.9	83.4	127	135	72.8	104	163
7	49.9	28.5	16.7	14.3	130	94.7	106	105	132	70.9	115	149
8	97.9	27.6	16.6	14.5	65.5	166	273	174	153	67.6	106	129
9	69.5	25.7	15.9	14.0	69.7	72.3	201	114	157	68.6	92.3	135
10	50.6	24.6	15.6	72.1	65.8	69.0	110	99.6	190	82.5	88.1	141
11	46.0	24.5	14.9	93.8	68.0	73.0	118	189	211	67.0	96.8	190
12	42.9	24.8	14.6	67.0	83.4	61.4	95.5	266	123	85.6	226	152
13	39.6	23.9	14.2	31.6	54.4	56.6	109	112	111	126	178	155
14	39.5	24.0	13.8	24.2	46.9	54.6	191	99.1	157	116	128	254
15	37.8	23.8	13.7	21.4	43.3	64.3	130	148	182	122	102	143
16	35.9	22.8	13.7	19.7	40.5	116	120	434	122	117	80.5	113
17	35.2	22.0	13.7	17.9	38.7	145	121	233	110	77.9	357	93.2
18	36.2	21.2	13.3	16.8	54.9	105	153	174	133	70.2	140	84.1
19	35.3	20.6	13.0	16.1	178	84.3	203	143	122	63.7	116	78.3
20	33.3	20.0	12.8	15.6	72.6	71.0	186	153	241	59.6	159	76.5
21	31.7	19.4	14.1	15.3	59.5	210	124	160	193	56.6	1795	72.1
22	31.5	19.4	13.6	15.0	86.9	108	237	123	163	54.7	1525	71.2
23	32.6	19.4	12.8	18.4	94.5	79.3	152	116	117	53.2	1531	67.6
24	31.7	18.9	16.6	51.3	63.3	141	124	110	106	56.8	1108	64.3
25	31.1	18.8	33.5	52.1	61.6	80.1	120	252	101	66.0	762	76.8
26	30.7	18.3	21.3	63.4	81.1	79.4	167	385	100	142	603	76.6
27	31.3	18.3	15.5	53.5	72.0	70.8	186	174	93.8	315	531	251
28	31.5	18.5	66.3	38.1	79.6	65.6	175	143	96.1	435	409	117
29	29.5		32.3	40.6	68.7	62.3	341	166	92.4	167	342	82.3
30	28.7		20.5	31.4	68.5	105	307	125	95.9	108	279	72.4
31	28.7		17.3		58.9		148	193		219		65.0

		Cau	uales extrei	1103								
	Máximos	Instantáneos		N	∕línimos Diari	os		Caudales	Promedios		Escor	rentía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Mer pie³/s	isuales pie³/s/mi²		Acre-pie	plg
Ene	8	438.95	119	30	438.24	28.7		40.3	2.24		2479	2.6
Feb	1	439.45	224	26	438.08	18.3		27.4	1.52		1524	1.6
Mar	28	438.96	122	20	437.97	12.8		18.8	1.05		1157	1.2
Abr	11	439.31	193	6	437.98	13.3		30.2	1.68		1797	1.9
May	19	439.82	311	3	438.15	22.7		72.2	4.01		4441	4.6
Jun	21	440.35	445	14	438.52	54.6		87.8	4.88		5223	5.4
Jul	29	441.81	859	3	438.55	58.8		159	8.84		9788	10.2
Ago	25	441.85	871	14	438.84	99.1		166	9.22		10210	10.6
Sep	11	440.56	501	29	438.80	92.4		140	7.79		8343	8.7
Oct	27	442.08	941	23	438.50	53.2		109	6.04		6686	7.0
Nov	21	452.00	4733	16	438.72	80.5		388	21.6		23102	24.1
Dic				24	438.60	64.3		135	7.48		8284	8.6
Anual	21	452.00	4733	20	437.97	12.8	Promedio	114	6.36	Total	83035	86.5

Nota 1: los valores en negrita fueron estimados mediante correlación con Boca de Uracillo

Nota 2: el nivel de la crecida del 21 de noviembre se obtuvo mediante levantamiento topográfico

ESTACIÓN LAS MARÍAS EN EL RÍO URACILLO Caudales promedios diarios en m³/s

Sensor

Latitud: 8° 53' 45" N Longitud: 80° 13' 17" O Año: 2006

Área de drenaje: 46.7 km²

Elevación: 175 m

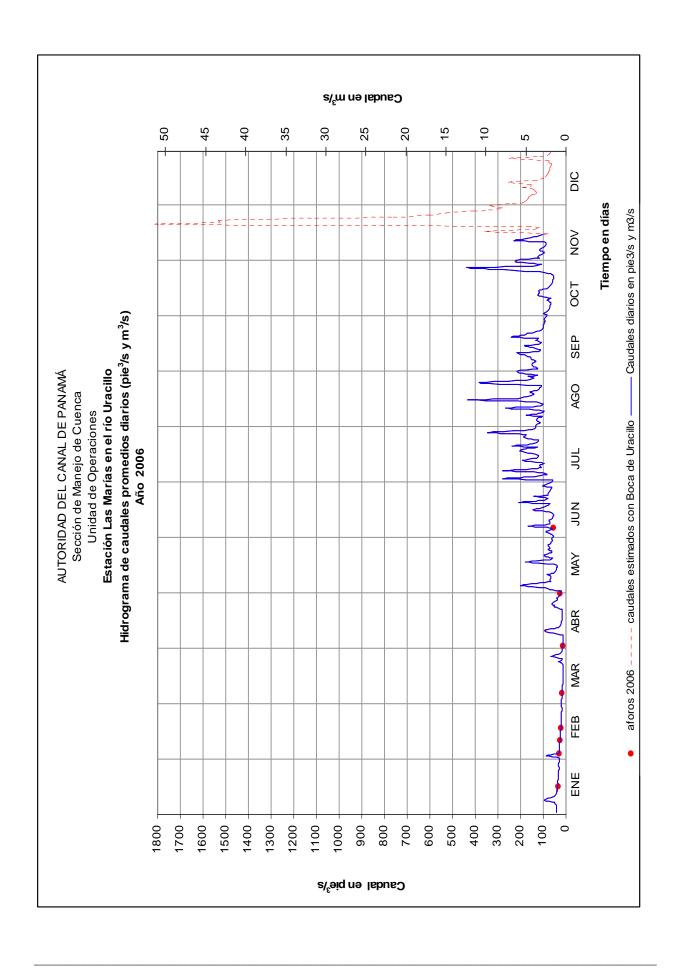
DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	1.22	2.47	0.642	0.453	0.751	1.80	2.41	3.78	6.14	2.48	6.27	9.51
2	1.20	2.21	0.578	0.437	0.678	1.58	1.76	3.74	3.70	2.31	3.26	6.67
3	1.17	0.872	0.550	0.428	0.643	1.78	1.67	3.47	3.57	2.82	3.52	5.45
4	1.14	0.814	0.549	0.408	1.96	2.02	7.85	3.22	4.16	2.41	3.35	4.93
5	1.23	0.821	0.518	0.387	2.57	2.47	4.74	3.68	4.24	2.15	2.66	4.70
6	1.43	0.848	0.490	0.377	5.68	1.64	2.36	3.59	3.82	2.06	2.94	4.61
7	1.41	0.807	0.472	0.406	3.67	2.68	2.99	2.98	3.74	2.01	3.27	4.21
8	2.77	0.781	0.469	0.412	1.85	4.69	7.74	4.92	4.33	1.91	2.99	3.66
9	1.97	0.727	0.449	0.396	1.97	2.05	5.69	3.22	4.44	1.94	2.61	3.83
10	1.43	0.697	0.441	2.04	1.86	1.96	3.10	2.82	5.39	2.34	2.49	3.98
11	1.30	0.693	0.422	2.66	1.93	2.07	3.33	5.37	5.96	1.90	2.74	5.39
12	1.21	0.702	0.414	1.90	2.36	1.74	2.70	7.52	3.47	2.42	6.41	4.32
13	1.12	0.675	0.403	0.896	1.54	1.60	3.08	3.18	3.15	3.58	5.03	4.40
14	1.12	0.679	0.390	0.684	1.33	1.55	5.40	2.81	4.44	3.28	3.62	7.20
15	1.07	0.675	0.387	0.605	1.23	1.82	3.69	4.18	5.16	3.46	2.90	4.05
16	1.02	0.647	0.387	0.558	1.15	3.29	3.41	12.3	3.45	3.31	2.28	3.19
17	1.00	0.624	0.387	0.507	1.10	4.10	3.44	6.58	3.12	2.21	10.1	2.64
18	1.02	0.599	0.376	0.475	1.55	2.98	4.32	4.92	3.76	1.99	3.97	2.38
19	1.00	0.583	0.368	0.457	5.03	2.39	5.75	4.04	3.45	1.80	3.28	2.22
20	0.942	0.567	0.361	0.442	2.06	2.01	5.28	4.34	6.82	1.69	4.51	2.17
21	0.897	0.551	0.400	0.432	1.68	5.94	3.52	4.54	5.47	1.60	50.8	2.04
22	0.893	0.550	0.384	0.425	2.46	3.07	6.72	3.48	4.61	1.55	43.2	2.02
23	0.924	0.550	0.364	0.521	2.68	2.25	4.30	3.30	3.31	1.51	43.4	1.91
24	0.898	0.536	0.470	1.45	1.79	4.01	3.52	3.12	3.00	1.61	31.4	1.82
25	0.879	0.532	0.949	1.48	1.75	2.27	3.41	7.13	2.87	1.87	21.6	2.17
26	0.870	0.518	0.602	1.79	2.30	2.25	4.74	10.9	2.83	4.03	17.1	2.17
27	0.888	0.518	0.440	1.52	2.04	2.00	5.28	4.92	2.66	8.91	15.0	7.09
28	0.891	0.523	1.877	1.08	2.25	1.86	4.95	4.04	2.72	12.3	11.6	3.30
29	0.836		0.916	1.15	1.94	1.76	9.67	4.70	2.62	4.73	9.67	2.33
30	0.814		0.580	0.891	1.94	2.97	8.70	3.53	2.71	3.07	7.90	2.05
31	0.814		0.491		1.67		4.21	5.47		6.20		1.84

Caudales	extremos

		Cau	Jaics Call Ci	1103								
	Máximos	instantáneos		1	Mínimos diari	os		Caudales	promedios		Escor	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		m	m³/s		m	m ³ /s		m³/s	l/s/km ²		MMC	mm
Ene	8	133.79	3.37	30	133.58	0.814		1.14	24.5		3.06	65.5
Feb	1	133.94	6.35	26	133.53	0.518		0.777	16.6		1.88	40.3
Mar	28	133.80	3.45	20	133.49	0.361		0.533	11.4		1.43	30.6
Abr	11	133.90	5.47	6	133.50	0.377		0.855	18.3		2.22	47.5
May	19	134.06	8.81	3	133.55	0.643		2.05	43.8		5.48	117
Jun	21	134.22	12.6	14	133.66	1.55		2.49	53.2		6.44	138
Jul	29	134.66	24.3	3	133.67	1.67		4.51	96.5		12.1	259
Ago	25	134.68	24.7	14	133.76	2.81		4.70	101		12.6	270
Sep	11	134.28	14.2	29	133.74	2.62		3.97	85.0		10.3	220
Oct	27	134.75	26.7	23	133.66	1.51		3.08	65.9		8.2	177
Nov	21	137.77	134	16	133.72	2.28		11.0	235		28.5	610
Dic				24	133.68	1.82		3.82	81.7		10.2	219
Anual	21	137.77	134	20	133.49	0.361	Promedio	3.24	69.4	Total	102	2193

Nota 1: los valores en negrita fueron estimados mediante correlación con Boca de Uracillo

Nota 2: el nivel de la crecida del 21 de noviembre se obtuvo mediante levantamiento topográfico



Escala 1:350,000 2.5 089 670 0099 000226 Subcuenca del Río Toabré Límite de la Cuenca del Canal de Panamá Subcuenca del río Toabré Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Cuerpos de Agua Localización Regional (hasta la estación Batatilla) Río principal 385 - 541 542 - 721 722 - 972 973 - 2000 Sección de Manejo de Cuenca UNIDAD DE OPERACIONES Leyenda Estación Principales (Tipo A) Estación Pluviografica Fluviografica Altitudes (metros) 0 - 47 48 - 141 142 - 250 Estación 251 - 384

670

Estación Batatilla en el Río Toabré





LOCALIZACIÓN: La estación está a 4 km (2.5 mi) aguas arriba de la confluencia con el río Coclé del Norte, en la provincia de Coclé. Sus coordenadas geográficas son: 8° 55' 01" de latitud Norte y 80° 30' 03" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 105-02-01

ÁREA DE DRENAJE: 788 km² (304 mi²)

PERIODO DE REGISTRO: Desde junio de 1958 hasta noviembre de 2006. (Nota: La estación fue instalada y operada por ETESA (antes IRHE) hasta mayo del 2002).

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal r instan		Elevació	n mínim	a diaria	Cau mín dia	imo	Cau prom ant	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	64.85	19.77	72274	2047	20/mar.	6.53	1.99	177	5.01	1587	44.9

CAUDAL SÓLIDO:

Con	naantmaaián (ma/l)		Rendimiento	Producció	n anual de
Cor	ncentración (mg/l)		líquido	sedin	entos
Máxima Instantánea	Mínima diaria	Promedio anual	(l/s/km2)	t/año	t/año/km²
9111.0	6.6	734.7	57.0	1041073	1321

ESTACIÓN BATATILLA EN EL RÍO TOABRÉ Caudales promedios diarios en pie³/s

Sensor: 3311 Año: 2006

Area de drenaje: 304 mi² Latitud: 8° 55' 01" N Longitud: 80° 30' 03" O

Elevación: 45 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	540	416	256	255	498	642	796	1035	2924	984	1351	2196
2	553	578	276	245	444	638	716	1148	1625	865	995	4550
3	532	409	270	248	424	1328	973	1036	2337	2013	1145	4059
4	517	368	272	256	614	1058	4142	985	2887	958	1390	2654
5	544	371	250	237	1034	781	3802	1005	2866	850	1564	2152
6	584	380	234	221	1204	688	1218	1070	3293	758	1249	2060
7	577	415	231	226	1434	931	1371	946	2219	723	2964	1937
8	1063	408	231	229	733	973	3190	1405	4235	717	2092	1807
9	933	366	222	269	670	665	3376	984	3529	851	2028	1707
10	627	366	216	932	649	1022	1538	853	1882	1070	1543	2522
11	566	334	208	1749	690	1003	1474	1126	1963	1219	1352	2827
12	525	321	202	1371	1564	721	1274	3376	1900	1284	3108	2682
13	516	315	199	521	748	629	3452	1158	1420	4096	2907	2671
14	494	315	195	383	588	592	2372	927	1696	3248	2284	7340
15	482	359	195	327	533	580	1807	919	2174	2620	1553	2261
16	479	336	189	299	500	1466	1476	4106	1741	1630	1546	1730
17	460	313	191	275	590	1436	1787	2576	1816	1439	1839	1422
18	462	296	188	268	498	1071	2320	2351	2379	1454	3348	1286
19	476	283	182	251	2171	1085	1872	2328	1801	1157	2669	1180
20	464	271	177	277	1260	763	1742	3230	2539	960	1629	1108
21	436	265	184	279	1844	826	1368	3643	1950	866	39217	1059
22	408	275	182	249	1373	833	2178	1433	1553	805	31297	1015
23	394	270	186	434	1015	929	1577	1270	1201	767	18839	1066
24	394	261	217	4497	714	1213	1247	1453	1095	772	14157	1316
25	392	267	355	1739	624	1439	1692	4191	1029	885	11749	1705
26	409	265	457	2276	799	1254	1308	8769	1002	1148	6090	1387
27	466	273	281	967	827	1158	1526	4163	972	3254	3214	2733
28	457	266	2025	670	703	2630	1867	1933	1018	4373	2516	1675
29	410		642	964	666	1016	2856	2413	1246	1502	2332	1300
30	393		353	599	637	930	1788	1593	1432	1233	2253	1156
31	393		291		581		1161	2347		1502		1069

Caudales extremos

		Out	daloo omio									
	Máximos	Instantáneos	3	ı	Mínimos Diario	os		Caudales	Promedios		Escorr	entía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		pie	pie ³ /s		pie	pie ³ /s		pie ³ /s	pie ³ /s/mi ²		Acre-pie	plg
Ene	9	8.57	1373	25	6.97	392		514	1.69		31633	2.0
Feb	2	7.54	715	24	6.71	261		334	1.10		18575	1.1
Mar	28	12.58	4491	20	6.53	177		308	1.01		18952	1.2
Abr	24	17.57	9116	6	6.62	221		717	2.36		42668	2.6
May	21	14.17	5885	3	7.03	424		859	2.83		52819	3.3
Jun	28	17.16	8710	15	7.31	580		1010	3.32		60097	3.7
Jul	4	21.30	12980	2	7.54	716		1912	6.29		117547	7.3
Ago	26	31.36	24668	10	7.77	853		2122	6.98		130458	8.0
Sep	8	22.27	14032	27	7.96	972		1991	6.55		118454	7.3
Oct	27	21.32	13001	8	7.54	717		1484	4.88		91247	5.6
Nov	21	64.85	72274	2	7.99	995		5674	18.7		337627	20.8
Dic	13	27.22	19661	22	8.03	1015		2117	6.96		130185	8.0
Anual	21	64.85	72274	20	6.53	177	Promedio	1587	5.22	Total	1150262	70.9

Nota 1: Los valores en negrita fueron estimados mediante correlación con la estación El Chorro y las lecturas del observador

Nota 2: El Nivel máximo de la crecida del 21 de noviembre de 2006 fue estimado mediante levantamiento topográfico

ESTACIÓN BATATILLA EN EL RÍO TOABRÉ Caudales promedios diarios en m³/s

Sensor 3311 Año: 2006

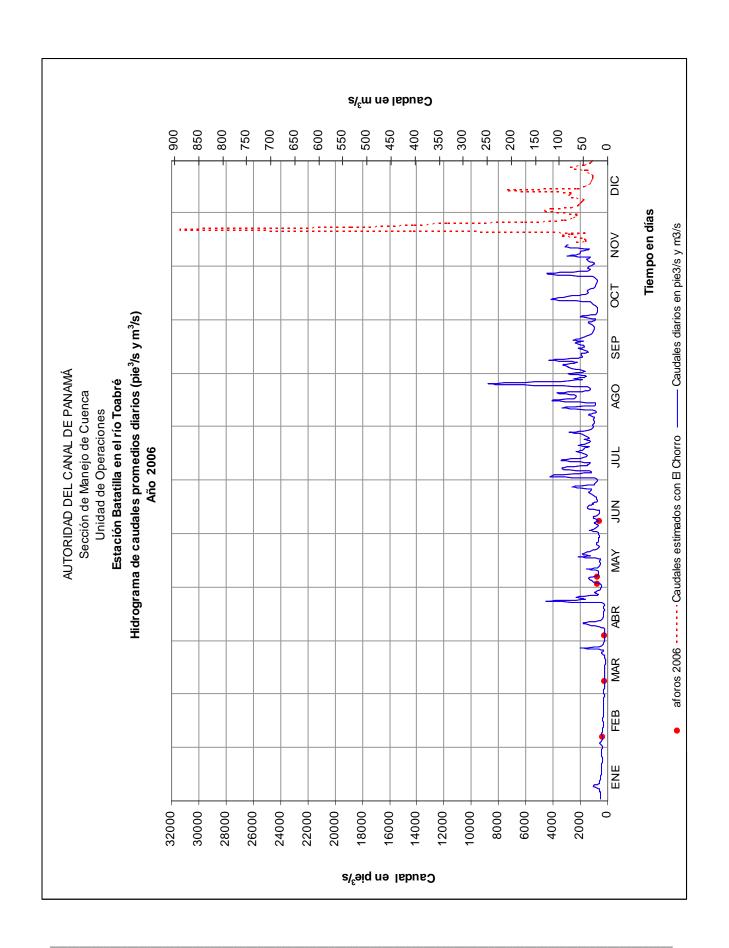
DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	15.3	11.8	7.25	7.21	14.1	18.2	22.5	29.3	82.8	27.9	38.3	62.2
2	15.7	16.4	7.81	6.94	12.6	18.1	20.3	32.5	46.0	24.5	28.2	129
3	15.1	11.6	7.64	7.02	12.0	37.6	27.5	29.3	66.2	57.0	32.4	115
4	14.6	10.4	7.70	7.26	17.4	30.0	117	27.9	81.7	27.1	39.4	75.2
5	15.4	10.5	7.07	6.70	29.3	22.1	108	28.5	81.2	24.1	44.3	60.9
6	16.5	10.8	6.62	6.26	34.1	19.5	34.5	30.3	93.2	21.5	35.4	58.3
7	16.3	11.8	6.55	6.40	40.6	26.4	38.8	26.8	62.8	20.5	84.0	54.9
8	30.1	11.5	6.55	6.48	20.8	27.5	90.3	39.8	120	20.3	59.2	51.2
9	26.4	10.4	6.28	7.62	19.0	18.8	95.6	27.9	100	24.1	57.4	48.3
10	17.8	10.4	6.11	26.4	18.4	29.0	43.6	24.2	53.3	30.3	43.7	71.4
11	16.0	9.45	5.88	49.5	19.5	28.4	41.7	31.9	55.6	34.5	38.3	80.1
12	14.9	9.09	5.73	38.8	44.3	20.4	36.1	95.6	53.8	36.4	88.0	76.0
13	14.6	8.93	5.63	14.8	21.2	17.8	97.8	32.8	40.2	116	82.3	75.7
14	14.0	8.93	5.52	10.8	16.7	16.8	67.2	26.3	48.0	92.0	64.7	208
15	13.6	10.2	5.51	9.27	15.1	16.4	51.2	26.0	61.6	74.2	44.0	64.0
16	13.6	9.53	5.35	8.47	14.2	41.5	41.8	116	49.3	46.2	43.8	49.0
17	13.0	8.87	5.40	7.78	16.7	40.7	50.6	72.9	51.4	40.8	52.1	40.3
18	13.1	8.39	5.33	7.60	14.1	30.3	65.7	66.6	67.4	41.2	94.8	36.4
19	13.5	8.01	5.16	7.11	61.5	30.7	53.0	65.9	51.0	32.8	75.6	33.4
20	13.1	7.69	5.01	7.85	35.7	21.6	49.3	91.5	71.9	27.2	46.1	31.4
21	12.4	7.50	5.21	7.91	52.2	23.4	38.7	103	55.2	24.5	1111	30.0
22	11.6	7.80	5.16	7.06	38.9	23.6	61.7	40.6	44.0	22.8	886	28.7
23	11.2	7.64	5.27	12.3	28.8	26.3	44.7	36.0	34.0	21.7	534	30.2
24	11.2	7.40	6.14	127	20.2	34.4	35.3	41.1	31.0	21.9	401	37.3
25	11.1	7.56	10.1	49.2	17.7	40.8	47.9	119	29.1	25.1	333	48.3
26	11.6	7.49	12.9	64.5	22.6	35.5	37.0	248	28.4	32.5	172	39.3
27	13.2	7.72	7.96	27.4	23.4	32.8	43.2	118	27.5	92.2	91.0	77.4
28	13.0	7.55	57.3	19.0	19.9	74.5	52.9	54.8	28.8	124	71.3	47.4
29	11.6		18.2	27.3	18.9	28.8	80.9	68.3	35.3	42.5	66.1	36.8
30	11.1		10.0	17.0	18.0	26.3	50.6	45.1	40.6	34.9	63.8	32.7
31	11.1		8.26		16.5		32.9	66.5		42.5		30.3

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		Ouuc	Jaioo Chiio	1100								
	Máximos	instantáneos	3	ľ	Mínimos diari	os	(Caudales	promedios		Escoi	rentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Men	suales			
		m	m ³ /s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	9	2.61	38.9	25	2.12	11.1		14.6	18.5		39.0	49.5
Feb	2	2.30	20.3	24	2.04	7.40		9.47	12.0		22.9	29.1
Mar	28	3.83	127	20	1.99	5.01		8.73	11.1		23.4	29.7
Abr	24	5.36	258	6	2.02	6.26		20.3	25.8		52.6	66.8
May	21	4.32	167	3	2.14	12.0		24.3	30.9		65.2	82.7
Jun	28	5.23	247	15	2.23	16.4		28.6	36.3		74.1	94.1
Jul	4	6.49	368	2	2.30	20.3		54.1	68.7		145	184
Ago	26	9.56	699	10	2.37	24.2		60.1	76.3		161	204
Sep	8	6.79	397	27	2.43	27.5		56.4	71.5		146	185
Oct	27	6.50	368	8	2.30	20.3		42.0	53.3		113	143
Nov	21	19.77	2047	2	2.44	28.2		161	204		417	529
Dic	13	8.30	557	22	2.45	28.7		60.0	76.1		161	204
Anual	21	19.77	2047	20	1.99	5.01	Promedio	44.9	57.0	Total	1419	1801

Nota: Los valores en negrita fueron estimados mediante correlación con la estación El Chorro y las lecturas del observador

Nota 2: El Nivel máximo de la crecida del 21 de noviembre de 2006 fue estimado mediante levantamiento topográfico



ESTACIÓN BATATILLA EN EL RÍO TOABRÉ

Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITU	D 8º 55' 01"	N L	LONGITU	D 80º 30'	03" O	Año:	2006	,	Área de D	Orenaje:	788 k	rm²
DÍA	EN	ERO		RERO		ARZO		RIL		IAYO		JNIO
4	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1 2	7.9 7.9	10.4 10.7	7.5 7.7	7.64 10.9	7.0 7.1	4.39 4.78	7.0 7.0	4.36 4.17	7.8 7.6	9.46 8.29	8.1 7.4	12.7 11.6
3	7.9	10.2	7.5	7.55	7.1	4.66	7.0	4.23	7.6	7.86	53.4	174
4	7.8	9.90	7.4	6.68	7.1	4.71	7.0	4.40	10.0	15.1	17.3	44.7
5 6	7.8 8.0	10.4 11.4	7.4 7.5	6.74 6.93	7.0 6.9	4.26 3.95	6.9 6.8	4.01 3.70	16.8 25.7	42.5 75.8	9.4 7.8	18.0 13.2
7	8.0	11.2	7.6	7.69	6.9	3.90	6.9	3.79	32.0	112	20.8	47.3
8	16.3	42.5	7.5	7.52	6.9	3.90	6.9	3.85	8.6	15.4	14.3	34.0
9 10	13.6 7.6	31.0 11.6	7.4 7.4	6.64 6.63	6.8 6.8	3.71 3.60	7.1 25.5	4.67 58.2	7.5 7.6	12.3 12.0	7.6 15.4	12.4 38.5
11	7.9	11.0	7.3	5.96	6.8	3.44	67.9	291	17.1	28.8	14.2	34.8
12	7.8	10.1	7.3	5.70	6.7	3.34	38.5	129	46.0	176	8.3	14.7
13 14	7.8 7.8	9.87 9.38	7.2 7.2	5.58 5.58	6.7 6.7	3.27 3.20	7.7 7.5	9.85 6.99	9.0	16.5 11.1	7.3 8.0	11.2
15	7.8 7.7	9.38	7.2 7.4	5.58 6.49	6.7 6.7	3.20	7.5 7.3	5.83	7.7 7.9	10.2	7.9	11.6 11.3
16	7.7	9.06	7.3	6.02	6.7	3.09	7.2	5.25	7.8	9.52	35.9	129
17	7.7	8.65	7.2	5.54	6.7	3.12	7.1	4.76	9.1	13.1	35.5	125
18 19	7.7 7.7	8.70 8.99	7.2 7.1	5.19 4.92	6.7 6.6	3.07 2.96	7.1 7.0	4.63 4.29	7.8 60.8	9.48 323	16.6 16.0	43.6 42.5
20	7.7	8.73	7.1	4.69	6.6	2.86	7.1	4.82	23.8	73.2	9.1	17.0
21	7.6	8.13	7.0	4.56	6.6	2.99	7.1	4.85	106.1	479	11.7	23.7
22	7.5	7.52	7.1	4.77	6.6	2.96	7.0	4.25	30.1	101	10.7	21.8
23 24	7.5 7.5	7.23 7.23	7.1 7.0	4.66 4.49	6.7 6.8	3.04 3.62	19.9 215.7	21.1 2374	14.9 8.2	36.9 14.3	13.1 21.7	29.7 64.3
25	7.5	7.19	7.0	4.60	7.4	6.43	45.5	193	7.6	11.5	32.4	114
26	7.5	7.55	7.0	4.56	7.7	8.59	64.0	356	10.9	21.3	21.4	65.7
27 28	7.7 7.7	8.78 8.59	7.1 7.0	4.72 4.59	7.1 72.6	4.90 360	13.4 7.5	31.7 12.3	10.5 8.0	21.3 13.7	63.2 149.3	179 960
29	7.7 7.5	7.56	7.0	4.55	9.4	14.7	14.3	33.7	7.4	12.0	143.3	35.0
30	7.5	7.20			7.4	6.37	7.7	11.4	7.5	11.7	12.4	28.2
31 Total	7.5	7.20 337		168	7.1	5.10 492		3604	8.0	11.3 1716		2368
Total		331		100				3004		1710		2300
DÍA	JULIO		AGOSTO		SEPTIEM	RRF (OCTUBRE	- 1	NOVIEME	RRF	DICIEMBI	2 F
						+/d						
	mg/l	t/d	mg/l 14.4	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1 2	mg/l 9.6 8.2	t/d 18.8 14.4	mg/l 14.4 17.7	t/d 36.4 49.7	mg/l 139.3 41	t/d 996 164	mg/l 13.5 10.9	t/d 32.5 23.1	mg/l 39.7 22	t/d 131 52.8	mg/l 52.1 154.4	t/d 280 1719
1 2 3	mg/l 9.6 8.2 17.0	t/d 18.8 14.4 40.5	mg/l 14.4 17.7 14.6	t/d 36.4 49.7 36.9	mg/l 139.3 41 69	t/d 996 164 393	mg/l 13.5 10.9 83.2	t/d 32.5 23.1 410	mg/l 39.7 22 18.5	t/d 131 52.8 51.7	mg/l 52.1 154.4 118.7	t/d 280 1719 1179
1 2 3 4	mg/l 9.6 8.2 17.0 424.1	t/d 18.8 14.4 40.5 4298	mg/l 14.4 17.7 14.6 13.5	t/d 36.4 49.7 36.9 32.4	mg/l 139.3 41 69 143.6	t/d 996 164 393 1014	mg/l 13.5 10.9 83.2 12.9	t/d 32.5 23.1 410 30.3	mg/l 39.7 22 18.5 25.6	t/d 131 52.8 51.7 87.1	mg/l 52.1 154.4 118.7 60.4	t/d 280 1719 1179 392
1 2 3 4 5	mg/l 9.6 8.2 17.0 424.1 223.2 18.7	t/d 18.8 14.4 40.5	mg/l 14.4 17.7 14.6	t/d 36.4 49.7 36.9	mg/l 139.3 41 69 143.6 99.7 152.1	t/d 996 164 393 1014 699 1225	mg/l 13.5 10.9 83.2 12.9 10.8 8.9	t/d 32.5 23.1 410	mg/l 39.7 22 18.5	t/d 131 52.8 51.7	mg/l 52.1 154.4 118.7 60.4 44.0 41.0	1/d 280 1719 1179 392 232 206
1 2 3 4 5 6 7	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5	t/d 18.8 14.4 40.5 4298 2076 55.6 78.8	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7	t/d 36.4 49.7 36.9 32.4 36.8 41.5 29.3	mg/l 139.3 41 69 143.6 99.7 152.1 71.0	t/d 996 164 393 1014 699 1225 385	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8	t/d 131 52.8 51.7 87.1 127 89.1 782	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2	17d 280 1719 1179 392 232 206 176
1 2 3 4 5 6 7 8	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5	18.8 14.4 40.5 4298 2076 55.6 78.8 2212	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0	t/d 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7	t/d 996 164 393 1014 699 1225 385 4888	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6	t/d 131 52.8 51.7 87.1 127 89.1 782 315	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5	t/d 280 1719 1179 392 232 206 176 148
1 2 3 4 5 6 7	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5	t/d 18.8 14.4 40.5 4298 2076 55.6 78.8	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7	t/d 36.4 49.7 36.9 32.4 36.8 41.5 29.3	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3	t/d 996 164 393 1014 699 1225 385	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8	t/d 131 52.8 51.7 87.1 127 89.1 782	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6	t/d 280 1719 1179 392 232 206 176 148 132
1 2 3 4 5 6 7 8 9 10	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5	#d 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2	t/d 996 164 393 1014 699 1225 385 4888 1695 165 193	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3	t/d 280 1719 1179 392 232 206 176 148 132 382 1129
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5	t/d 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123 1618	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6	t/d 996 164 393 1014 699 1225 385 4888 1695 165 193 179	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4	## 15 ##	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23	## 164 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176	mg/l 52.1 154.4 118.7 60.4 44.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1	#d 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123 1618 49.2 27.6 27.2	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4	1/d 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6	### 15	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1	## 164 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 256.4 56.9 27.7 33.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1176 318 105 126	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5	## 150 miles ## 150	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5	## 154 ## 154 ## 155	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6	### 15	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1	## 164 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 256.4 56.9 27.7 33.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1176 318 105 126	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5	## 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123 1618 49.2 27.6 27.2 3331 596 372 348 2564	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2	## 164 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145 375 460 173 523	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121	mg/l 52.1 154.4 118.7 60.4 44.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4	## 150 min style ## 150 min st	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7	## 164 996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145 375 460 173 523 237	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 90.1 23.2	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5	## 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123 1618 49.2 27.6 27.2 3331 596 372 348 2564	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28	## 164 ## 165	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4	## 15 ##	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6	### 164 ###	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 17.3 12.8 10.9 9.8 9.1 9.5	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 27553 1199 779.6	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7	t/d 280 1719 1179 392 232 206 176 148 132 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2	## 100 min	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2	## 164	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8	t/d 280 1719 1179 392 232 206 176 148 132 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 1001 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0	### 17892	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14	## 164	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3 88.7	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 187 85.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2	1/d 18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 444	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7	## 36.4 49.7 36.9 32.4 36.8 41.5 29.3 89.3 32.5 22.4 123 1618 49.2 27.6 27.2 3331 596 372 348 2564 2232 83.2 61.4 119 10121 17892 1586 178	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1	## 164	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3 88.7 3009 2793	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545 678 349	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 187 85.2 471
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2 108.4	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 444 758	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7 57.8	## 1586 178 341	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 32.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1 22.3	## 1996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145 375 460 173 523 237 106 53.0 41.8 35.8 33.5 31.1 35.0 67.8	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0 33.3	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 17.1 17.9 25.3 88.7 30.9 27.9 30.9 27.9 30.9	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6 50.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545 678 349 287	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6 20.3	t/d 280 1719 1179 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 187 85.2 471 125 64.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2 108.4 45.9	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 4444 758 201	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7 57.8 27.9	## 100 miles ## 100	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1	## 164 ## 165	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0 33.3 24.2	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3 88.7 300 2793 122 73.0	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545 678 349	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6 20.3 17.0	t/d 280 1719 1179 392 232 206 176 148 132 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 187 85.2 471 125 64.6 48.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2 108.4	18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 444 758	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7 57.8	## 1586 178 341	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 32.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1 22.3	## 1996 164 393 1014 699 1225 385 4888 1695 165 193 179 80.7 134 252 145 375 460 173 523 237 106 53.0 41.8 35.8 33.5 31.1 35.0 67.8	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0 33.3	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 17.1 17.9 25.3 88.7 30.9 27.9 30.9 27.9 30.9	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6 50.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545 678 349 287	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6 20.3	t/d 280 1719 392 232 206 176 148 132 382 1129 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 187 85.2 471 125 64.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2 108.4 45.9 17.1	1/d 18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 444 758 201 48.6 15222	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7 57.8 27.9 152.9	## 109 ##	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 32.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1 22.3	## 1481 ## 1481 ## 1481 ## 1481 ## 1481 ## 1481 ## 1481 ## 148	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0 33.3 24.2 31.0	1/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3 88.7 3009 2793 122 73.0 114 11926	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6 50.3	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 237 1716 518 121 601494 210760 55273 27003 16854 3545 678 349 287 259	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6 20.3 17.0 15.1	t/d 280 1719 1179 392 232 206 176 148 132 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 471 125 64.6 48.1 39.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 9.6 8.2 17.0 424.1 223.2 18.7 23.5 283.5 167.6 27.0 25.4 27.4 118.6 57.9 35.7 24.9 40.4 66.1 41.4 34.2 22.5 46.4 28.1 19.1 44.6 20.9 26.8 97.2 108.4 45.9	1/d 18.8 14.4 40.5 4298 2076 55.6 78.8 2212 1385 101 91.6 85.3 1002 336 158 90.1 177 375 189 146 75.3 247 109 58.2 184 66.9 99.9 444 758 201 48.6 15222	mg/l 14.4 17.7 14.6 13.5 15.0 15.9 12.7 26.0 13.5 10.7 44.5 195.8 17.4 12.2 12.1 331.6 94.5 64.6 61.0 324.5 250.4 23.7 19.7 33.4 987.2 834.0 155.7 37.7 57.8 27.9 152.9	### ### ### ### ### ### ### ### ### ##	mg/l 139.3 41 69 143.6 99.7 152.1 71.0 471.7 196.3 35.9 40.2 38.6 23 32 47.4 34.1 84.5 79.1 39.2 84.2 49.7 28 18.0 15.6 14.2 14 13 14.1 22.3 28.3	### 14881 ### 14881 ### 14881 ### 14881 ### 164 ###	mg/l 13.5 10.9 83.2 12.9 10.8 8.9 8.3 8.2 13.0 24.7 22.3 34.5 306.9 106.6 77.3 29.6 25.3 25.3 17.3 12.8 10.9 9.8 9.1 9.5 11.7 31.6 377.9 261.0 33.3 24.2	t/d 32.5 23.1 410 30.3 22.4 16.6 14.7 14.4 27.0 64.6 66.5 108 3075 847 495 118 89.1 90.1 48.9 30.1 23.2 19.3 17.1 17.9 25.3 88.7 3009 2793 122 73.0 114 11926 Anual:	mg/l 39.7 22 18.5 25.6 33.2 29.2 107.8 61.6 49.6 31.5 22 256.2 165.4 56.9 27.7 33.3 52.7 209.4 79.3 30.3 6269.1 2753 1199 779.6 586.3 237.9 86.2 56.6 50.3 47.0	1/d 131 52.8 51.7 87.1 127 89.1 782 315 246 119 73.4 1948 1176 318 105 126 518 121 601494 210760 55273 27003 16854 3545 678 349 287 259	mg/l 52.1 154.4 118.7 60.4 44.0 41.0 37.2 33.5 31.6 61.8 163.3 115.4 350.9 645.2 47.5 31.9 23.3 20.0 17.5 15.9 14.9 13.9 15.3 22.7 44.8 25.1 70.4 30.6 20.3 17.0 15.1	t/d 280 1719 1179 392 232 206 176 148 132 757 2293 11588 263 135 81.0 62.9 50.6 43.2 38.5 34.6 39.9 73.2 471 125 64.6 48.1 39.4

Mínimo Diario:

Máximo Diario:

6.6

6269.1

Promedio Anual:

Máxima Instantánea 9111.0

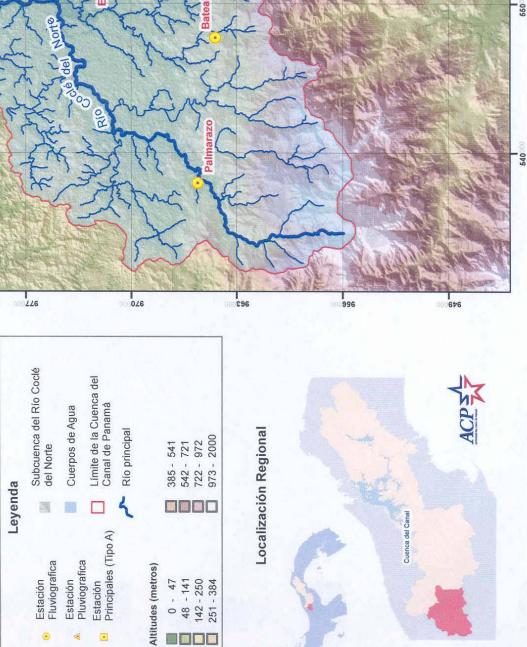
734.7

64000 226 046 186 Subcuenca del río Coclé del Norte Subcuenca del Río Coclé del Norte Límite de la Cuenca del Canal de Panamá Autoridad del Canal de Panamá Departamento de Ambiente, Agua y Energía División de Administración Ambiental Sección de Manejo de Cuenca Cuerpos de Agua Río principal (hasta la estación Canoa) UNIDAD DE OPERACIONES Leyenda Principales (Tipo A) Estación Pluviografica Fluviografica Estación Estación

099

099

Escala 1:250,000



660

046

Estación Canoa en el Río Coclé del Norte





LOCALIZACIÓN: La estación está a 4 km (2.5 mi) aguas arriba de la confluencia con el río Toabré, en la provincia de Coclé. Sus coordenadas geográficas son: 8° 53' 09" de latitud Norte y 80° 33' 26" de longitud Oeste.

CÓDIGO DE LA ESTACIÓN: 105-01-02

ÁREA DE DRENAJE: 571 km² (220 mi²)

PERIODO DE REGISTRO: Desde septiembre de 1983 hasta noviembre de 2006. (Nota: La estación fue instalada y operada por ETESA (antes IRHE) hasta mayo del 2002).

VALORES EXTREMOS Y PROMEDIOS PARA EL AÑO 2006

CAUDAL LÍQUIDO:

	ación máx nstantánea		Caudal 1	náximo táneo	Elevació	n mínim	a diaria	Cau mín dia	imo	Cau prom ant	edio
día/mes	pie	m	pie ³ /s	m^3/s	día/mes	pie	m	pie ³ /s	m^3/s	pie ³ /s	m^3/s
21/nov.	52.62	16.04	57605	1631	8/oct.	21.76	6.63	311	8.82	1340	38.0

CAUDAL SÓLIDO:

Con	ncentración (mg/l)		Rendimiento líquido		n anual de entos
Máxima Instantánea	Mínima diaria	Promedio anual	(1/s/km2)	t/año	t/año/km²
4749.2	5.3	417.9	66.5	500211	876

ESTACIÓN CANOA EN EL RÍO COCLÉ DEL NORTE Caudales promedios diarios en pie³/s

Sensor: 3211 Año: 2006

Latitud: 8° 53' 09" N Area de drenaje: 220.5 mi²

Longitud: 80° 33′ 26″ O Elevación: 40 pie

DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	447	1050	796	1081	632	1629	587	487	535	359	894	1633
2	452	897	731	903	553	579	399	710	766	337	1166	3004
3	529	631	613	834	549	1153	530	652	741	1486	659	6134
4	434	532	559	997	956	1264	791	412	1407	783	863	1989
5	594	524	996	668	1593	1186	1850	709	967	400	1339	1363
6	1064	578	477	602	1738	615	697	805	1105	344	850	1164
7	781	504	661	928	1186	852	656	564	1264	329	966	993
8	5577	734	1107	697	791	886	616	1739	2515	311	1110	853
9	1635	925	764	547	980	659	992	767	2366	324	1149	785
10	863	1121	590	526	1100	1829	769	491	1811	865	1035	763
11	795	562	462	4695	1439	1285	822	590	1030	640	924	920
12	733	468	525	3591	1956	771	670	838	630	626	2196	738
13	647	461	451	1526	1554	495	1420	436	539	3056	2131	596
14	596	459	392	795	816	497	784	972	687	2197	1333	548
15	671	747	579	637	661	885	901	1414	760	2072	973	1990
16	552	820	695	539	585	776	553	2464	507	1911	693	836
17	634	698	990	486	1140	774	553	1548	452	1625	1316	770
18	635	1527	988	454	1160	543	1460	662	704	1099	2057	745
19	754	1065	586	442	1375	2953	1282	616	2570	2324	2163	746
20	959	634	526	415	803	756	2806	687	2266	933	758	608
21	756	617	444	386	933	519	1441	1249	1039	783	32621	559
22	638	519	384	370	1120	484	833	527	722	556	15616	515
23	504	617	370	539	1090	414	693	454	514	667	25838	474
24	460	513	944	13285	771	467	569	913	542	500	13448	436
25	603	523	1302	2401	550	412	967	1344	514	645	11407	826
26	2007	572	3749	3804	491	428	702	3945	411	535	6292	2901
27	2999	664	969	1572	599	368	524	2671	385	990	5473	3677
28	3757	872	4212	982	557	436	529	816	369	619	3829	850
29	1343		2533	911	473	425	1054	780	614	492	2884	939
30	1391		1785	919	597	467	1209	581	411	457	1947	612
31	977		1555		426		503	542		590		1082

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		Cauc	שומום באנוכו	11103								
	Máximos	Instantáneos	3	N	∕línimos Diari	os	(Caudales	Promedios		Escor	rentía
Mes	Día	Elevación pie	Caudal pie ³ /s	Día	Elevación pie	Caudal pie ³ /s		Men pie ³ /s	suales pie ³ /s/mi ²		Acre-pie	plg
Ene	28	28.47	8735	4	22.10	434		1122	5.09		69005	5.9
Feb	9	24.68	2807	14	22.16	459		708	3.21		39340	3.3
Mar	28	27.96	7900	23	21.93	370		1024	4.64		62944	5.4
Abr	24	39.83	29959	22	21.93	370		1551	7.03		92296	7.8
May	11	27.39	6983	31	22.08	426		941	4.27		57865	4.9
Jun	19	27.98	7932	27	21.93	368		827	3.75		49206	4.2
Jul	20	26.78	6000	2	22.01	399		908	4.12		55854	4.7
Ago	26	33.28	17197	4	22.04	412		1012	4.59		62247	5.3
Sep	19	29.11	9803	28	21.93	369		971	4.41		57801	4.9
Oct	13	29.70	10805	8	21.76	311		931	4.22		57238	4.9
Nov	21	52.62	57605	3	22.56	659		4798	21.8		285483	24.3
Dic	3	29.41	10306	24	22.10	436		1292	5.86		79433	6.8
Anual	21	52.62	57605	8	21.76	311	Promedio	1340	6.08	Total	968711	82.4

Nota 1: Los valores en negrita fueron estimados mediante correlación con Batatilla-El Chorro

Nota 2: Desde el 21 hasta el 30 de noviembre los caudales se estimaron mediante el modelo HEC-HMS

ESTACIÓN CANOA EN EL RÍO COCLÉ DEL NORTE Caudales promedios diarios en m³/s

Sensor: 3211 Año: 2006

Latitud: 8° 53' 09" N Årea de drenaje: 571 km²

Longitud: 80° 33' 26" O Elevación: 12.2 m

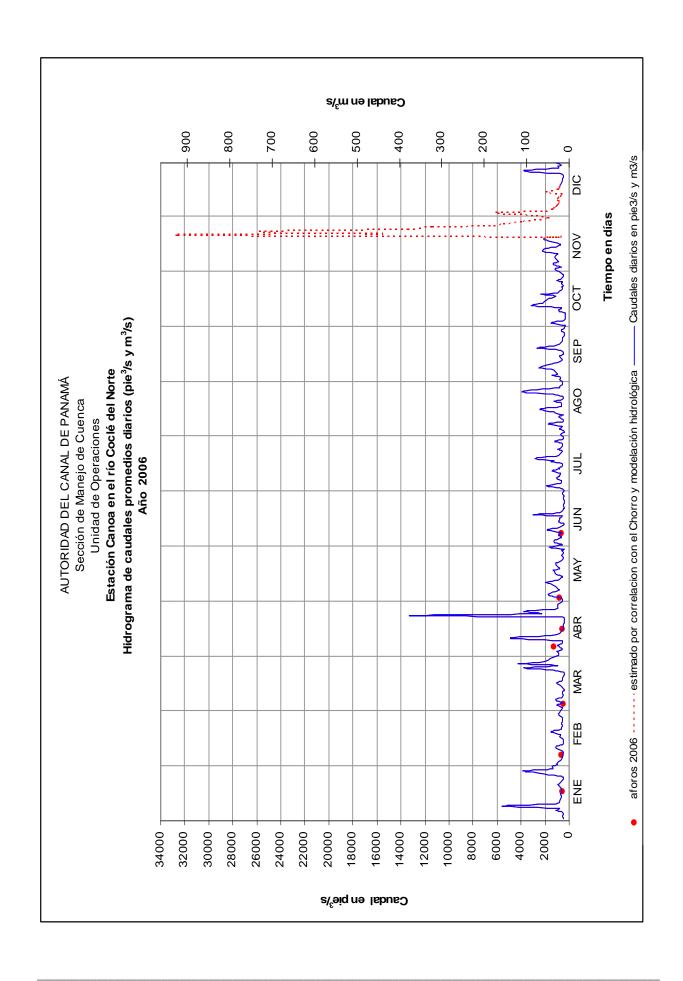
DÍA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	ОСТ	NOV	DIC
1	12.7	29.7	22.5	30.6	17.9	46.1	16.6	13.8	15.1	10.2	25.3	46.2
2	12.8	25.4	20.7	25.6	15.7	16.4	11.3	20.1	21.7	9.55	33.0	85.1
3	15.0	17.9	17.4	23.6	15.5	32.7	15.0	18.5	21.0	42.1	18.7	174
4	12.3	15.1	15.8	28.2	27.1	35.8	22.4	11.7	39.9	22.2	24.4	56.3
5	16.8	14.8	28.2	18.9	45.1	33.6	52.4	20.1	27.4	11.3	37.9	38.6
6	30.1	16.4	13.5	17.1	49.2	17.4	19.7	22.8	31.3	9.73	24.1	33.0
7	22.1	14.3	18.7	26.3	33.6	24.1	18.6	16.0	35.8	9.33	27.4	28.1
8	158	20.8	31.4	19.7	22.4	25.1	17.5	49.2	71.2	8.82	31.4	24.2
9	46.3	26.2	21.6	15.5	27.7	18.7	28.1	21.7	67.0	9.17	32.5	22.2
10	24.4	31.8	16.7	14.9	31.2	51.8	21.8	13.9	51.3	24.5	29.3	21.6
11	22.5	15.9	13.1	133	40.8	36.4	23.3	16.7	29.2	18.1	26.2	26.1
12	20.8	13.3	14.9	102	55.4	21.8	19.0	23.7	17.8	17.7	62.2	20.9
13	18.3	13.1	12.8	43.2	44.0	14.0	40.2	12.4	15.3	86.6	60.3	16.9
14	16.9	13.0	11.1	22.5	23.1	14.1	22.2	27.5	19.4	62.2	37.8	15.5
15	19.0	21.2	16.4	18.0	18.7	25.1	25.5	40.0	21.5	58.7	27.6	56.4
16	15.6	23.2	19.7	15.3	16.6	22.0	15.7	69.8	14.4	54.1	19.6	23.7
17	18.0	19.8	28.0	13.8	32.3	21.9	15.7	43.8	12.8	46.0	37.3	21.8
18	18.0	43.2	28.0	12.9	32.9	15.4	41.3	18.7	19.9	31.1	58.3	21.1
19	21.4	30.1	16.6	12.5	38.9	83.6	36.3	17.4	72.8	65.8	61.2	21.1
20	27.2	18.0	14.9	11.7	22.7	21.4	79.5	19.4	64.2	26.4	21.5	17.2
21	21.4	17.5	12.6	10.9	26.4	14.7	40.8	35.4	29.4	22.2	924	15.8
22	18.1	14.7	10.9	10.5	31.7	13.7	23.6	14.9	20.4	15.7	442	14.6
23	14.3	17.5	10.5	15.3	30.9	11.7	19.6	12.8	14.6	18.9	732	13.4
24	13.0	14.5	26.7	376	21.8	13.2	16.1	25.8	15.4	14.2	381	12.3
25	17.1	14.8	36.9	68.0	15.6	11.7	27.4	38.1	14.6	18.3	323	23.4
26	56.9	16.2	106	108	13.9	12.1	19.9	112	11.6	15.2	178	82.1
27	84.9	18.8	27.4	44.5	17.0	10.4	14.8	75.6	10.9	28.0	155	104
28	106	24.7	119	27.8	15.8	12.3	15.0	23.1	10.4	17.5	108	24.1
29	38.0		71.7	25.8	13.4	12.0	29.9	22.1	17.4	13.9	81.7	26.6
30	39.4		50.6	26.0	16.9	13.2	34.2	16.4	11.6	13.0	55.1	17.3
31	27.7		44.0		12.1		14.2	15.4		16.7		30.6

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		Odde	adioo ontioi	1100								
	Máximos	instantáneos	3	ľ	Mínimos diari	os	(Caudales	promedios		Esco	rrentía
Mes	Día	Elevación	Caudal	Día	Elevación	Caudal		Mens	suales			
		m	m³/s		m	m³/s		m³/s	l/s/km ²		MMC	mm
Ene	28	8.68	247	4	6.74	12.3		31.8	55.7		85.1	149
Feb	9	7.52	79.5	14	6.75	13.0		20.1	35.1		48.5	85.0
Mar	28	8.52	224	23	6.69	10.5		29.0	50.8		77.7	136
Abr	24	12.14	848	22	6.69	10.5		43.9	76.9		114	199
May	11	8.35	198	31	6.73	12.1		26.7	46.7		71.4	125
Jun	19	8.53	225	27	6.68	10.4		23.4	41.0		60.7	106
Jul	20	8.16	170	2	6.71	11.3		25.7	45.1		68.9	121
Ago	26	10.14	487	4	6.72	11.7		28.7	50.2		76.8	134
Sep	19	8.87	278	28	6.68	10.4		27.5	48.2		71.3	125
Oct	13	9.05	306	8	6.63	8.82		26.4	46.2		70.6	124
Nov	21	16.04	1631	3	6.88	18.7		136	238		352	617
Dic	3	8.96	292	24	6.74	12.3		36.6	64.1		98.0	172
Anual	21	16.04	1631	8	6.63	8.82	Promedio	38.0	66.5	Total	1195	2093

Nota 1: Los valores en negrita fueron estimados mediante correlación con Canoa

Nota 2: Desde el 21 hasta el 30 de noviembre los caudales se estimaron mediante el modelo HEC-HMS



ESTACIÓN CANOA EN EL RÍO COCLÉ DEL NORTE Concentraciones de Sedimentos Suspendidos (mg/l) y Caudales Sólidos Promedios Diarios (t/d)

LATITUD 8	8º 53' 09"	N L	ONGITUE) 80º 33'	' 26" O	Año:	2006		Área de D	renaie:	571 ki	m²
DÍA		ERO	FEBI			ARZO		BRIL		IAYO		INIO
5 (mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d	mg/l	t/d
1	5.8	6.36	11.0	28.3	7.8	15.2	11.8	31.3	6.3	9.79	41.5	165
2 3	5.8 6.1	6.46 7.85	8.9 6.3	19.6 9.76	6.8 6.3	12.1 9.44	8.5 8.3	18.7 17.0	6.1 6.1	8.29 8.21	6.3 28.8	8.94 81.2
4	5.8	6.13	6.1	7.90	7.6	10.4	10.5	25.5	9.9	23.1	21.6	66.8
5	13.7	20.0	6.1	7.77	15.8	38.4	6.4	10.5	22.0	85.6	24.1	69.9
6	11.9	30.9	6.2	8.76	5.9	6.90	6.3	9.21	23.7	101	8.6	12.9
7 8	10.5 155.0	20.1 2115	6.0 6.6	7.40 11.8	9.0 11.8	14.6 31.9	10.0 6.6	22.7 11.2	14.9 7.9	43.3 15.4	11.2 9.9	23.3 21.5
9	27.9	112	22.3	50.4	6.7	12.6	6.1	8.19	13.5	32.4	6.7	10.8
10	7.7	16.2	15.9	43.7	6.2	9.00	6.1	7.79	15.7	42.3	60.9	273
11	6.9	13.4	6.2	8.48	5.9	6.63	393.8	4524	70.5	248	19.5	61.3
12 13	6.6 6.4	11.8 10.1	5.9 5.9	6.74 6.61	6.1 5.8	7.81 6.43	93.8 23.6	824 88.2	57.4 31.1	275 118	8.4 6.0	15.7 7.22
14	6.2	9.10	5.9	6.58	5.6	5.40	7.1	13.8	7.6	15.2	7.1	8.62
15	6.4	10.6	7.2	13.2	6.3	8.95	6.3	9.89	6.4	10.4	11.0	23.9
16	6.1	8.27	8.8	17.6	6.5	11.1	6.1	8.02	6.3	9.07	7.8	14.8
17 18	6.4 7.0	9.88 10.8	6.6 21.2	11.2 79.3	12.7 10.8	30.8 26.2	5.9 5.8	7.05 6.48	28.5 19.5	79.4 55.4	7.3 6.1	13.8 8.11
19	7.4	13.6	12.0	31.2	6.2	8.92	5.8	6.28	19.6	66.1	116.6	842
20	11.5	26.9	6.3	9.84	6.1	7.80	5.7	5.79	7.4	14.6	7.6	14.0
21	7.7	14.3	6.3	9.51	5.8	6.31	5.6	5.30	15.1	34.5	6.0	7.66
22 23	6.3 6.0	9.92 7.39	6.0 6.3	7.66 9.52	5.6 5.6	5.27 5.04	5.6 6.1	5.03 8.08	18.9 14.4	51.8 38.4	5.9 5.7	7.02 5.78
24	5.9	6.60	6.0	7.54	18.4	42.5	1079.0	35068	7.7	14.5	5.9	6.74
25	6.5	9.53	6.0	7.74	18.9	60.2	53.0	312	6.1	8.23	5.7	5.75
26	51.0	250	6.2	8.68	91.8	842	145.3	1352	6.0	7.15	5.8	6.04
27 28	56.7 115.4	416 1061	6.6 8.4	10.7 17.9	10.3 137.1	24.5 1413	24.0 9.5	92.3 22.8	6.3 6.2	9.20 8.39	5.5 5.8	5.00 6.18
29	16.2	53.2	0.4	17.0	51.0	316	8.4	18.8	5.9	6.83	5.8	5.99
30	17.5	59.4			25.3	110	9.3	20.8	6.3	9.14	5.9	6.75
31 Total	9.6	22.9 4376		465	19.4	73.8 3180		42560	5.8	5.99 1455		1806
Iotai		4370		405		3100		42300		1400		1000
DÍA	JULIO		AGOS		SEPTIEN		OCTUE		NOVIEI		DICIEM	
DÍA 1	JULI0 mg/l 6.3	t/d	AGOS mg/l 5.9	TO t/d 7.08	SEPTIEN mg/l 6.2	//BRE t/d 8.16	OCTUE mg/l 5.5	3RE t/d 4.85	NOVIEI mg/I 15.2	MBRE t/d 33.3	mg/l 20.6	t/d
1 2	mg/l 6.3 5.7	t/d 8.99 5.52	mg/l 5.9 8.1	t/d 7.08 14.0	mg/l 6.2 9.4	t/d 8.16 17.7	mg/l 5.5 5.4	t/d 4.85 4.48	mg/l 15.2 16.9	t/d 33.3 48.3	mg/l 20.6 78.3	t/d 82.2 576
1 2 3	mg/l 6.3 5.7 6.4	t/d 8.99 5.52 8.34	mg/l 5.9 8.1 6.7	t/d 7.08 14.0 10.7	mg/l 6.2 9.4 8.1	t/d 8.16 17.7 14.8	mg/l 5.5 5.4 32.0	t/d 4.85 4.48 116	mg/l 15.2 16.9 7.4	t/d 33.3 48.3 11.9	mg/l 20.6 78.3 211.3	t/d 82.2 576 3171
1 2 3 4	mg/l 6.3 5.7 6.4 13.7	t/d 8.99 5.52 8.34 26.4	mg/l 5.9 8.1 6.7 5.7	t/d 7.08 14.0 10.7 5.75	mg/l 6.2 9.4 8.1 41.5	t/d 8.16 17.7 14.8 143	mg/l 5.5 5.4 32.0 10.1	t/d 4.85 4.48 116 19.3	mg/l 15.2 16.9 7.4 14.9	t/d 33.3 48.3 11.9 31.4	mg/l 20.6 78.3 211.3 31.8	t/d 82.2 576 3171 155
1 2 3 4 5 6	mg/l 6.3 5.7 6.4 13.7 49.1 6.8	t/d 8.99 5.52 8.34 26.4 222 11.6	mg/l 5.9 8.1 6.7 5.7 10.5 9.0	t/d 7.08 14.0 10.7 5.75 18.2 17.7	mg/l 6.2 9.4 8.1 41.5 12.5 19.3	t/d 8.16 17.7 14.8 143 29.5 52.1	mg/l 5.5 5.4 32.0 10.1 5.7 5.5	t/d 4.85 4.48 116 19.3 5.55 4.59	mg/l 15.2 16.9 7.4 14.9 20.5 18.5	t/d 33.3 48.3 11.9 31.4 67.0 38.4	mg/l 20.6 78.3 211.3 31.8 16.1 12.8	t/d 82.2 576 3171 155 53.5 36.3
1 2 3 4 5 6 7	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2	t/d 7.08 14.0 10.7 5.75 18.2 17.7 8.50	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1	t/d 8.16 17.7 14.8 143 29.5 52.1 112	mg/l 5.5 5.4 32.0 10.1 5.7 5.5	t/d 4.85 4.48 116 19.3 5.55 4.59 4.35	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7	t/d 82.2 576 3171 155 53.5 36.3 23.5
1 2 3 4 5 6 7 8	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7	**Modes	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0	t/d 7.08 14.0 10.7 5.75 18.2 17.7 8.50 234	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6	t/d 8.16 17.7 14.8 143 29.5 52.1 112 601	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3	t/d 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8
1 2 3 4 5 6 7	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2	t/d 7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4	t/d 8.16 17.7 14.8 143 29.5 52.1 112	mg/l 5.5 5.4 32.0 10.1 5.7 5.5	t/d 4.85 4.48 116 19.3 5.55 4.59 4.35	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0
1 2 3 4 5 6 7 8 9 10	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1	t/d 8.99 5.52 8.34 26.4 222 11.6 11.7 28.5 17.2 18.3	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8	**t/d** 7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9	#d 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8	t/d 8.99 5.52 8.34 26.4 222 11.6 11.7 28.5 17.2 18.3 30.8	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8
1 2 3 4 5 6 7 8 9 10 11 12 13	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8	t/d 8.99 5.52 8.34 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8	1/d 7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1	#/d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448	mg/l 20.6 78.3 211.3 311.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2	#/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10
1 2 3 4 5 6 7 8 9 10 11 12	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8	t/d 8.99 5.52 8.34 26.4 222 11.6 11.7 28.5 17.2 18.3 30.8	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7	t/d 7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 411 113	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2	t/d 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414	mg/l 6.2 9.4 8.1 41.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 11.31 448 60.0 23.8 11.3 60.0 594 334 12.8	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7	### 156 ## 15	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 6.9 3230.7	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1	t/d 82.2 576 3171 155 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 15.6 79.7 525 69.6 15.1	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0 6.32 6.9 3230.7 829.2	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843 31681	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0	t/d 82.2 576 3171 155 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7	### 156 ## 15	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7	#d 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 6.9 3230.7	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1	t/d 82.2 576 3171 155 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1	t/d 8.99 5.52 8.34 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0 63.2 6.9 3230.7 829.2 1525.0 566.0 430.2	## 128 257843 31681 96404 18621 12007	mg/l 20.6 78.3 211.3 311.8 16.1 12.8 9.7 7.6 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7	t/d 82.2 576 3171 155 53.5 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2 12.9	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269	mg/l 6.2 9.4 8.1 41.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0 63.2 6.9 3230.7 829.2 1525.0 566.0 430.2 166.7	### 150 min strain stra	mg/l 20.6 78.3 211.3 311.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7 213.0	t/d 82.2 576 3171 155 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2 12.9 7.75	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73 5.29	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0 63.2 6.9 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8	## 128 ## 128	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7 213.0 120.2	### ### ### ### ### ### #### #### #### ####
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0 6.1 43.3	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2 12.9 7.75 7.90 112	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2 7.5 7.3	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694 14.9	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6 6.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.29 5.01 9.94	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1 6.3 6.0	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4 9.56 7.18	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8 75.7 49.9	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843 31681 96404 18621 12007 2566 1805 709 352	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7 213.0 120.2 11.6	t/d 82.2 576 3171 155 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512 1082 24.9 26.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0 6.1 43.3 21.4	## 156 ## 150	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2 7.5 7.3 6.2	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694 14.0 8.81	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6 5.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73 5.29 5.01	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1 6.3 6.0 5.9	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4 9.56 7.18 6.55	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 6.9 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8 75.7	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843 31681 96404 18621 12007 2566 1805 709	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7 213.0 120.2 12.0 11.6 6.3	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512 1082 24.9 26.6 9.40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0 6.1 43.3	## 150 min style ## 150 min st	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2 7.5 7.3	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694 14.0 8.81 8.10	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6 6.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73 5.29 5.01 9.94 5.74	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1 6.3 6.0	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4 9.56 7.18 6.55 13.2	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8 75.7 49.9	## 133	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 11.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 5.8 16.7 213.0 120.2 11.6	t/d 82.2 576 3171 155 53.5 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512 1082 24.9 26.6 9.40 38.5
1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0 6.1 43.3 21.4 6.0	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2 12.9 7.75 7.90 112 63.2 7.37 1669	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2 7.5 7.3 6.2 6.1	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694 14.0 8.81	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6 6.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73 5.29 5.01 9.94 5.74	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1 6.3 6.0 5.9 9.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4 9.56 7.18 6.55 13.2 3475	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 18.0 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8 75.7 49.9	t/d 33.3 48.3 11.9 31.4 67.0 38.4 28.9 37.3 71.9 35.4 24.4 1131 448 60.0 23.8 11.3 60.0 594 334 12.8 257843 31681 96404 18621 12007 2566 1805 709 352 130	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 61.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 16.7 213.0 120.2 11.6 6.3 14.5	t/d 82.2 576 3171 155 53.5 36.3 23.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512 1082 24.9 26.6 9.40
1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Total	mg/l 6.3 5.7 6.4 13.7 49.1 6.8 7.4 7.7 11.7 9.2 9.1 18.8 25.8 7.3 8.5 6.1 6.2 43.7 25.4 76.4 19.7 7.4 6.5 6.2 22.1 7.5 6.0 6.1 43.3 21.4	## 8.99 5.52 8.34 26.4 222 11.6 11.9 11.7 28.5 17.2 18.3 30.8 89.8 14.0 18.8 8.31 8.46 156 79.7 525 69.6 15.1 11.0 8.61 52.2 12.9 7.75 7.90 112 63.2 7.37 1669	mg/l 5.9 8.1 6.7 5.7 10.5 9.0 6.2 55.0 8.4 6.0 6.8 9.7 5.8 68.8 20.6 68.7 29.7 6.4 6.3 7.5 20.3 6.1 5.8 29.7 43.0 338.7 106.2 7.5 7.3 6.2 6.1	7.08 14.0 10.7 5.75 18.2 17.7 8.50 234 15.7 7.14 9.78 19.9 6.18 164 71.4 414 113 10.4 9.49 12.5 62.0 7.82 6.48 66.3 141 3269 694 14.9 8.81 8.10 5461	mg/l 6.2 9.4 8.1 41.5 12.5 19.3 36.1 97.6 55.4 35.0 12.1 6.3 6.1 7.9 7.0 6.0 5.8 11.5 192.5 45.5 13.7 7.0 6.0 6.1 6.0 5.7 5.6 6.6	## 8.16 17.7 14.8 143 29.5 52.1 112 601 321 155 30.5 9.76 8.02 13.3 13.1 7.44 6.45 19.9 1210 252 34.7 12.4 7.57 8.12 7.58 5.73 5.29 5.01 9.94 5.74	mg/l 5.5 5.4 32.0 10.1 5.7 5.5 5.4 5.3 5.4 12.3 7.9 10.1 221.8 75.1 43.8 54.7 26.8 22.4 69.9 10.9 8.7 6.1 7.2 6.3 6.9 6.5 10.1 6.3 6.0 5.9 9.1	## 4.85 4.48 116 19.3 5.55 4.59 4.35 4.06 4.28 26.0 12.3 15.5 1659 403 222 256 107 60.3 398 24.8 16.6 8.36 11.7 7.71 10.9 8.55 24.4 9.56 7.18 6.55 13.2 3475	mg/l 15.2 16.9 7.4 14.9 20.5 18.5 12.2 13.7 25.6 14.0 10.8 210.5 86.0 18.4 10.0 6.7 18.6 118.0 63.2 6.9 3230.7 829.2 1525.0 566.0 430.2 166.7 134.8 75.7 49.9 27.3	## 133	mg/l 20.6 78.3 211.3 31.8 16.1 12.8 9.7 7.6 6.8 6.8 61.8 7.7 6.2 6.1 79.2 11.7 9.7 7.5 7.3 6.3 6.1 6.0 5.9 16.7 213.0 120.2 11.6 6.3 14.5	t/d 82.2 576 3171 155 53.5 53.5 53.5 15.8 13.0 12.7 26.5 13.8 9.10 8.20 386 24.0 18.2 13.6 13.3 9.33 8.41 7.58 6.84 6.16 33.7 1512 1082 24.9 26.6 9.40 38.5

Mínimo Diario:

Máximo Diario:

5.3

3230.7

Promedio Anual:

Máxima Instantánea

417.9

4749.2

RED DE ESTACIONES HIDROMETEOROLÓGICAS

Y Latind Norte Tipo de Estación? Parámetros Y Latind Norte Lossed Tipo de Estación? Parámetros 102463400 09 16 06 79 55 14 Pluviográfica / Linnigráfica PL 1004510,33 09 05 31 79 50 16 Pluviográfica / Linnigráfica PL 1007454,88 09 06 44 79 41 38 Principal (Tipo A) / Linnigráfica PL 1007272,06 09 02 54 80 02 21 Pluviográfica / Linnigráfica PL 10013267,94 09 04 55 79 50 11 Pluviográfica / Linnigráfica PL 10013267,94 09 04 55 79 50 11 Pluviográfica / Linnigráfica PL 1013267,94 09 04 25 79 50 12 Pluviográfica / Linnigráfica PL 1017897,95 09 12 37 79 30 35 Pluviográfica / Linnigráfica PL 102403,56 09 12 37 79 30 35 Pluviográfica / Pluviográfica PL 1017897,58 09 12 37 79 30 35 Pluviográfica / Pluviográfica PP 1041572,20 09 22 48 79 34 42	L				Coordonod	I	Coordonodos	Coornsfires			Area de		ľ	Dogietro	
100 30.5 61856.3.4 102463.4.0 0.04 6.0 79.55 14 Physiográfica / Linmigafíca PL se 2.00 616881.47 10.1423.20 9.0 10.37 79.56.20 Physiográfica / Linmigafíca PL sa 2.00 616881.47 10.1423.20 9.0 64.4 79.41.36 Physiográfica / Linmigafíca PL sa 1.03 3.14 64328.28, 9 10.015.61.84 9.0 11.09 79.91.5 Physiográfica PF d 1.03 3.05 66280.09.8 10.0027.20 9.0 6.43 79.51.1 Physiográfica PF d 1.00 3.05 66280.09.8 10.0027.20 9.0 4.3 79.51.1 Physiográfica PF a 1.00 3.05 66280.09.8 10.012.37 79.54.9 Physiográfica PF a 2.00 3.05 66280.29.9 10.0132.20.9 9.0 4.3 79.41.3 Physiográfica PF a 2.00 9.00 4.9 2.0 4.2 Physiográfica PF </th <th>Š</th> <th></th> <th></th> <th>Elevación m</th> <th>X</th> <th></th> <th>Latitud Norte</th> <th>Longitud Oeste</th> <th>${ m Tipo}$ de Estación2</th> <th>Parámetros³</th> <th>drenaje (km²)</th> <th>Río o Lago o Mar</th> <th>Región⁴</th> <th></th> <th>Registro desde (Precipitación)</th>	Š			Elevación m	X		Latitud Norte	Longitud Oeste	${ m Tipo}$ de Estación 2	Parámetros ³	drenaje (km²)	Río o Lago o Mar	Región ⁴		Registro desde (Precipitación)
es 9.9 9.0 616.881.47 10.14.22.30 0.0 to 10.37 79.56.20 Photográfica / Limnigafíca PL sas 110 33.5 61128.59 10.051.08 0.0 to 31 PP 50.16 Photográfica / Limnigafíca PL sas 110 33.5 6128.28.95 10.015.01.88 0.0 to 3.1 Photográfica PL d 100 33.5 6278.84.47 10.13.20.28 0.0 to 3.1 Photográfica PP siro 110 33.5 6278.64.71 10.16.20.28 0.0 to 3.1 Photográfica PP siro 110 33.5 6278.65.17 10.016.37.0 0.0 to 3.2 79.50.1 Photográfica PP PP ca 110 33.5 62305.9.1 10.163.20.2 0.0 to 3.2 79.50.1 PP PP PP ca 20 70.0 70.3 62305.9.1 10.1780.7.2 0.0 to 3.2 79.51.1 Phriográfica PP PP ca 20 70.0 <td< td=""><th></th><td>1 Gatún</td><td>100</td><td>30.5</td><td>618565.42</td><td>1024634.00</td><td>09 16 06</td><td>79 55 14</td><td>Pluviográfica / Limnigráfica</td><td>PL</td><td></td><td>Gatún</td><td>ROR</td><td>ENE 1905</td><td>ENE 1905</td></td<>		1 Gatún	100	30.5	618565.42	1024634.00	09 16 06	79 55 14	Pluviográfica / Limnigráfica	PL		Gatún	ROR	ENE 1905	ENE 1905
css 110 33.5 611235-90 1008109-32 99.91 99.816 Phuviográfica / Inmignáfica PL sat 91.3 31.4 64328-38 100810-32 90.644 79.418 Phivriográfica / Inmignáfica PL de 10.0 30.5 605600-38 101200-24 80.02.5 19.01 Phuviográfica PP sind 11.0 33.5 605800-39 101200-34 80.02.5 79.511 Phuviográfica PP sind 11.0 33.5 60590-32 101200-34 80.02.5 79.512 Phuviográfica PP sind 11.0 33.5 60290-2.0 10120-3 79.55.9 PP PP sind 11.0 33.5 60290-2.0 10.12.3 79.51.1 PP PP sind 11.0 33.5 66218-0.0 101780-3.9 79.51.2 Pp.100 PP sind 11.0 33.5 6618-0.0 1010-3 79.51.2 Ppuviográfica PP <t< td=""><th>. 1</th><td>2 Guacha</td><td>56</td><td>29.0</td><td>616581.47</td><td>1014523.08</td><td>09 10 37</td><td>79 56 20</td><td>Pluviográfica / Limnigráfica</td><td>PL</td><td></td><td>Gatún</td><td>ROR</td><td>DIC 1959</td><td>DIC 1959</td></t<>	. 1	2 Guacha	56	29.0	616581.47	1014523.08	09 10 37	79 56 20	Pluviográfica / Limnigráfica	PL		Gatún	ROR	DIC 1959	DIC 1959
NAS 31.4 64328.98 1007454.88 09 06 44 79 41.38 Principal (Tipo A)/ Linningarlifica ML Assa 91 27.7 647864.38 10150.084 99 11 09 79 39 15 Phuviogrifica. PF Jondo 110 33.5 627864.01 100.02.54 99 21 PP 100.02grifica. PF Jondo 110 33.5 62786.47 10.1267.70 09 12.8 79 51.1 Phuviogrifica PP Jondo 110 33.5 62306.29 10.1832.97 09 12.8 79 51.1 Phuviogrifica PP Linn 200 79.3 66206.29 10.1832.97 09 12.3 79 51.4 Phuviogrifica PP cen 200 79.3 66214.91 10.002.43 79 51.4 79 51.4 Phuviogrifica PP cen 200 79.3 66214.01 10.175.25 09 12.3 79 51.4 Phuviogrifica PP cen 200 82.3 650.15 10.14.2 79 51.4		3 Las Raíces	110	33.5	611235.99	1005109.32	09 05 31	79 59 16	Pluviográfica / Limnigráfica	ЪГ		Gatún	ROR	ENE 1912	ENE 1912
asa 91 27.7 647864.38 1015610.64 09 11 09 79 39 15 Physiográfica / Puviográfica PF ad 100 30.5 605600.55 100022.06 09 02.54 80 02.21 Puviográfica P plorado 110 33.5 627848.47 103267.94 0.0 05.35 79 50 11 P P plorado 110 33.5 623976.17 1004.43 79 51.2 Puviográfica P P ca 260 79.3 623976.17 1004.44 0.0 04.23 79 56.9 Puviográfica P P ca 260 79.3 62371.71 1029003.56 0.0 12.37 79 56.9 Puviográfica P P ca 270 82.3 65370.12 102427.48 0.0 15.3 79 36.9 Puviográfica P P ca 270 82.4 10.1 652003.2 103712.2.5 0.0 12.3 79 36.9 Puviográfica P P ca 270 <th>7</th> <td>4 Gamboa</td> <td>103</td> <td>31.4</td> <td>643528.95</td> <td>1007454.88</td> <td>09 06 44</td> <td>79 41 38</td> <td>Principal (Tipo A) / Limnigráfica</td> <td>ML</td> <td></td> <td>Gatún</td> <td>ROR</td> <td>JUN 1881</td> <td>JUN 1881</td>	7	4 Gamboa	103	31.4	643528.95	1007454.88	09 06 44	79 41 38	Principal (Tipo A) / Limnigráfica	ML		Gatún	ROR	JUN 1881	JUN 1881
d 100 30.5 608600.95 1000220.06 00.0234 80.0231 Pluviográfica P nico 110 33.5 62368447 1012267.94 09.09.55 79.50.11 Pluviográfica P nico 110 33.5 62368447 10163267.94 09.04.35 79.50.12 Pulviográfica P ea 110 33.5 623956.05 1016447.07 09.04.35 79.49.22 Pulviográfica P ea 200 82.3 65291.21.6 1023003.56 09.18.24 79.49.22 Pulviográfica PL ea 130 82.3 65291.84.1 1017897.55 09.12.23 79.34.4 Pluviográfica PL a 130 97.5 65291.84.1 1017897.55 09.12.23 79.34.5 Pluviográfica PL a 130 97.5 66291.88.7 104.137.20 09.12.23 79.34.5 Pluviográfica PL a 130 97.5 66291.88.7 104.12.2		5 Santa Rosa	91	27.7	647864.38	1015610.84	09 11 09	79 39 15	Pluviográfica / Fluviográfica	PF		Chagres	ROR	ENE 1986	ENE 1986
blorado 110 33.5 6.27848.47 1013267.94 09 05.5 79 50.11 Pluviográfica P siró 110 33.5 6.2289.66 1012647.07 09 14.28 79 51.12 Pluviográfica P siró 110 33.5 6.2289.66 1012647.07 09 14.35 79 40.22 Pluviográfica P cat 120 79.3 6.5290.5.29 1018329.76 09 12.37 79 45.6 Pluviográfica P cat 130 32.9 6.5290.5.21 1010349.35 09 12.37 79 34.56 Pluviográfica PP Q a 130 32.9 6.5290.2.87 1013329.76 09 12.34 79 34.45 Pluviográfica PP Q a 130 32.0 97.5 6.6291.87 1013329.72 09 12.49 79 34.40 Pluviográfica PP Q a 320 97.5 6.229.83 104157.20 09 12.48 79 34.42 Pluviográfica PP Q a 170 4.60 6.42		5 Humedad	100	30.5	605600.95	1000272.06	09 02 54	80 02 21	Pluviográfica	Ь			ROR		AGO 1925
titlo 33.5 6.2959.66 1021647/07 09 14.38 79 51.12 Pluviográfica P ca 108 32.9 6.2975.17 1003444.05 09 04.35 79 45.59 Pluviográfica P ca 10.0 73.3 6.29076.17 100344.05 09 12.37 79 56.59 Punviográfica P a 270 82.3 6.5717.16 1012003.56 09 12.33 79 37.4 Punviográfica / Limnigráfica PPQ in 3.0 97.5 6.6217.16 1012003.55 0.9 12.23 79 37.4 Pluviográfica / Pluviográfica PPQ in 3.0 97.5 6.6217.16 1012003.53 0.9 12.23 79 37.4 Pluviográfica / Pluviográfica PPQ in 3.0 10.7 6.8003.22 103122.23 0.9 12.8 79 30.5 Pluviográfica / Pluviográfica PPQ in 3.0 10.7 6.8003.22 104137.23 0.9 12.2 79 30.5 Pluviográfica / Pluviográfica PPQ uel 1.70 6.		7 Barro Colorado	110	33.5	627848.47	1013267.94	09 09 55	79 50 11	Pluviográfica	Ь			ROR		ABR 1925
ea 32.9 629376.17 1003444.05 09 04 33 79 49 25 Pluviográfica Pluviográfica<		8 Monte Lirio	110	33.5	625959.66	1021647.07	09 14 28	79 51 12	Pluviográfica	Ь			ROR		DIC 1907
ca 79.3 652005.29 1018329.76 091237 79.36.59 Limmigráfica Limmigráfica L a 270 82.3 652005.26 10918.24 79.34.56 Pluviográfica / Pluviográfica PL a 130 39.6 651449.10 1017897.95 0912.23 79.31.4 Pluviográfica / Pluviográfica PPO ia 130 37.6 66291.387 104274.83 0912.48 79.30.5 Pluviográfica / Pluviográfica PPO uel 1706 66291.387 1041272.20 09.21.88 79.30.5 Pluviográfica / Pluviográfica PPO uel 1706 520 97.5 66292.14 1041372.20 09.21.82 79.30.5 Pluviográfica / Pluviográfica PPQOs uel 1706 520 97.5 6420.24.4 1041372.20 09.22.5 79.43.2 Pluviográfica / Pluviográfica PPQOs uel 1706 520 97.5 79.43.2 Pluviográfica / Pluviográfica PPQOs oc 18.5 99.12	-,	9 Caño	108	32.9	629376.17	1003444.05	09 04 35	79 49 22	Pluviográfica	Ь			ROR		ENE 1912
ca 270 82.3 655717.16 1029003.56 09 18 24 79 34 56 Pluviográfica / Limingráfica PL a 130 39.6 651549.10 1017897.95 09 12.23 79 37 14 Pluviográfica / Pluviográfica PFQ ria 34.0 104 663701.63 1024274.83 09 15.49 79 30.35 Pluviográfica / Pluviográfica PFQ ria 32.0 97.5 662913.87 103712.23 09 22.48 79 30.59 Pluviográfica / Pluviográfica PFQQs usa 1706 520 66423.871 104137.20 09 22.48 79 30.59 Pluviográfica / Pluviográfica PFQQs usa 1509 460 64208.44 104137.20 09 22.52 79 42.22 Pluviográfica / Pluviográfica PFQQs nosa 1508 460 64208.44 1041937.59 09 22.52 79 42.22 Pluviográfica PFQQs nosa 1575 480 65692.14 1041937.59 09 22.52 79 42.22 Pluviográfica PFQQs	1) Madden	260	79.3	652005.29	1018329.76	09 12 37	79 36 59	Limnigráfica	Т		Alhajuela	ROR	ENE 1900	
a 130 396 651549.10 1017897.95 09 12.23 79 37.14 Pluviográfica / Pluviográfica PPQO ria 340 104 663701.63 102424.83 09 15.49 79 30.35 Pluviográfica / Pluviográfica PPQOs ria 320 97.5 66291.87 10374.60.14 09 22.88 79 30.59 Pluviográfica / Pluviográfica PPQOs uel 1706 520 664238.71 1041572.20 09 22.12 79 30.15 Pluviográfica / Pluviográfica PPQOs uel 1706 520 664238.71 1041572.20 09 22.12 79 30.15 Pluviográfica / Pluviográfica PPQOs uel 1706 480 656092.14 1041937.59 09 22.5 79 42.2 Pluviográfica PP losa 140 42.7 610405.05 09 17.2 79 42.2 Pluviográfica PPQOs noss 340 140 42.7 610405.05 09 17.2 79 42.2 Pluviográfica PPQOs noss 340	1	1 Salamanca	270	82.3	655717.16	1029003.56	09 18 24	79 34 56	Pluviográfica / Limnigráfica	ЪГ		Alhajuela	ROR	ENE 1900	ENE 1900
tria 320 97.5 662913.87 1037450.14 90 22.58 79 30.59 Phiviográfica / Pluviográfica / Pluviográ	1.	2 Alhajuela	130	39.6	651549.10	1017897.95	09 12 23	79 37 14	Pluviográfica / Fluviográfica	PFQ	1030	Chagres	ROR	JUL 1899	JUL 1899
ria 320 97.5 662913.87 1037450.14 09 22 38 79 36 59 Phyviográfica / Pluviográfica PFQOs uel 1706 520 664238.71 1041572.23 09 22 48 79 34 0 Pluviográfica / Pluviográfica PFQOs uel 1706 520 664238.71 1041572.20 09 25 12 79 30 15 Pluviográfica PFQOs uel 1509 460 64208.44 1041537.50 09 25 25 79 42 2 Pluviográfica PPQOs vo 1575 480 656092.14 1041937.50 09 25 25 79 43 41 Pluviográfica PPQOs vo 1125 38.1 63766.89 102856.82 09 17 52 79 43 41 Pluviográfica PPQOs vo 1140 42.7 610972.85 99 10 52 79 43 42 Pluviográfica PPQOs vo 1140 42.7 610972.85 99 10 52 79 43 42 Pluviográfica PPQOs vo 115 610477.88 1004050.90 10 65	1.	3 Chico	340	104	663701.63	1024274.83	09 15 49	79 30 35	Pluviográfica / Fluviográfica	PFQQs	414	Chagres	ROR	OCT 1932	NOV1932
uel 350 107 658003.22 1037122.53 09 22 48 79 33 40 Pluviográfica / Pluviográfica PFQQs ara 1506 520 664238.71 1041572.20 09 21 52 79 42 22 Pluviográfica PP losa 1509 460 642084.49 1035340.50 09 21 52 79 42 22 Pluviográfica PP losa 1575 480 656092.14 1041937.59 09 22 52 79 42 22 Pluviográfica PP vo 1125 38.1 636092.14 1041937.59 09 22 52 79 42 22 Pluviográfica PPQQs vo 1140 42.7 610972.85 992100.77 08 58 32 79 43 2 Pluviográfica / Pluviográfica PPQQs vo 140 42.7 610972.85 992100.77 08 58 56 80 03 45 Pluviográfica / Pluviográfica PPQQs s 153 47.2 610972.85 9910.65 50 99 10 53 79 43 53 Pluviográfica / Pluviográfica PPQQs s 15	1,	4 Candelaria	320	5.79	662913.87	1037450.14	09 22 58	79 30 59	Pluviográfica / Fluviográfica	PFQQs	135	Pequení	ROR	SEP 1933	SEP 1933
uel 1706 520 664238.71 1041572.20 09.25 12 79.30 15 Pluviográfica P P losa 1509 460 642084.49 1035340.50 09.21 52 79.42.2 Pluviográfica P P losa 1575 480 656092.14 1041937.59 09.25 25 79.43.41 Pluviográfica Pluviográfica P P ones 125 38.1 637665.89 102856.83 09.15.2 79.43.41 Pluviográfica Pluviográfica PFQQs ones 340 104 603045.41 989130.34 08.85.6 80.03.45 Pluviográfica / Fluviográfica PFQQs s 630 192 673961.61 1026355.68 09.165.5 79.23.53 Pluviográfica / Fluviográfica PFQQs s 65.0 192 675961.61 1026355.68 09.165.5 79.23.53 Pluviográfica / Fluviográfica PLQQs s 65.0 19.8 65.0 19.2 679.35.5 79.23.53 Pluviográfica / Fluviográfica	1;	5 Peluca	350	107	658003.22	1037122.53	09 22 48	79 33 40	Pluviográfica / Fluviográfica	PFQQs	91.0	Boquerón	ROR	SEP 1933	OCT 1933
ara 1509 460 642084.49 1035340.50 09 21 52 79 44 22 Pluviográfica PP PP losa 1575 480 656092.14 1041937.39 09 25 25 79 34 2 Pluviográfica PPQOs vo 125 38.1 63665.89 102856.82 09 17 52 79 43 41 Pluviográfica / Pluviográfica PFQOs vo 140 42.7 610972.85 992100.77 08 58 32 79 43 41 Pluviográfica / Pluviográfica PFQOs vo 140 42.7 610972.88 1004050.90 09 16 55 79 23 53 Pluviográfica / Pluviográfica PFQOs ses 63.0 192 645067.88 1004050.90 09 04 53 79 40 48 Pluviográfica PPQOs ses 65.0 19.8 652790.64 99664.07 09 00 51 79 37 02 Secundaria (Tipo A) PL siguel 100 30.5 651993.02 991286.03 09 61 22 79 34 24 Pluviográfica / Pluviográfica PL	1	5 San Miguel	1706	520	664238.71	1041572.20	09 25 12	79 30 15	Pluviográfica	Ь			ROR		ABR 1941
losa 1575 480 656092.14 101937.59 09 25 25 79 34 42 Pluviográfica / Pluviográfica PFQOs vo 125 38.1 637665.89 1028568.82 09 17 52 79 43 41 Pluviográfica / Pluviográfica PFQOs vo 140 42.7 610972.85 992100.77 08 58 56 80 03 45 Pluviográfica / Pluviográfica PFQOs vo 140 42.7 610972.85 992100.77 08 56 56 80 03 45 Pluviográfica / Pluviográfica PFQOs vo 158 47.2 645067.88 1004050.90 09 04 53 79 40.48 Pluviográfica / Pluviográfica PFQOs vo 158 47.2 645067.88 1004050.90 09 04 53 79 40.48 Pluviográfica / Limiigráfica PLO vo 158 65.0 19.8 652790.64 996646.07 09 00 51 79 37.02 Secundaria (Tipo B) / Limiigráfica PL viguel 10.0 30.5 651986.3 991286.03 09 122 79 37.2 Pluviográfica	1.	7 Agua Clara	1509	460	642084.49	1035340.50	09 21 52	79 42 22	Pluviográfica	Ь			ROR		MAY 1910
ones 125 38.1 637665.89 1028568.82 09 17 52 79 43 41 Pluviográfica / Fluviográfica PFQQs vo 140 42.7 610972.85 992100.77 08 58 32 79 59 25 Pluviográfica / Fluviográfica PFQQs nas 340 104 603045.41 989130.34 08 56 56 80 03 45 Pluviográfica / Fluviográfica PFQQs s 150 192 675961.61 1026555.68 09 16 55 79 23 53 Pluviográfica / Fluviográfica PFQQs es 65.0 19.8 652790.64 996646.07 09 00 51 79 40 48 Pluviográfica / Fluviográfica PL siguel 100 30.5 651993.02 997595.29 09 01 22 79 37 02 Secundaria (Tipo B) / Limnigráfica PL siguel 15.0 4.57 656482.80 991286.03 09 01 25 79 37 62 Pluviográfica / Marcográfica PL siguel 15.0 4.57 656842.80 991286.03 09 33 55 79 33 53 Pluviográfica / Marcográfica	1;	8 Escandalosa	1575	480	656092.14	1041937.59	09 25 25	79 34 42	Pluviográfica	Ь			ROR		ENE 1948
oo 140 42.7 610972.85 992100.77 08 58 32 79 59 25 Pluviográfica / Fluviográfica PFQQs ones 340 104 603045.41 989130.34 08 56 56 80 03 45 Pluviográfica / Fluviográfica PFQQs s 630 192 675961.61 1026355.68 09 16 55 79 23 53 Pluviográfica / Fluviográfica PFQQs es 155 47.2 645067.88 1004050.90 09 04 53 79 40 48 Pluviográfica / Fluviográfica PFQQs es 150 19.8 652790.64 96646.07 09 00 51 79 36 36 Pluviográfica / Linnigráfica PL iguel 100 30.5 651993.02 997595.29 09 0122 79 37 58 Principal (Tipo B) / Linnigráfica PL Heights 15.0 4.57 656842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Pluviográfica PL Hill 200 61.0 646756.67 1001476.86 09 03 23 79 33 53 Principal (Tipo A) / Linnigráfica	15	9 Ciento	125	38.1	637665.89	1028568.82	09 17 52	79 43 41	Pluviográfica / Fluviográfica	PFQQs	117	Gatún	ROR ,	ABR 1943	ABR 1947
ones 340 104 603045.41 989130.34 08.56.56 80.03.45 Pluviográfica / Fluviográfica PFQOs s 630 192 675961.61 1026355.68 09 16.55 79.23.53 Pluviográfica / Fluviográfica PFQOs es 155 47.2 645067.88 1004050.90 09 04.53 79 40.48 Pluviográfica / Fluviográfica PFQOs es 65.0 19.8 652790.64 99646.07 09 00.51 79 36.36 Pluviográfica / Linmigráfica PL siguel 100 30.5 651993.02 997595.29 09 01.22 79 37 02 Secundaria (Tipo B) / Linmigráfica PL deights 15.0 4.57 65848.14 991664.02 08 57 56 79 34.24 Pluviográfica / Linmigráfica PL deights 15.0 4.57 65848.14 991664.02 08 57 56 79 34.24 Pluviográfica / Linmigráfica PL deights 10.0 30.5 658953.00 990618.47 08 57 36 79 33.53 Principal (Tipo A) / Linmigráfica <th>2(</th> <td>9 El Chorro</td> <td>140</td> <td>42.7</td> <td>610972.85</td> <td>992100.77</td> <td>08 58 32</td> <td>79 59 25</td> <td>Pluviográfica / Fluviográfica</td> <td>PFQQs</td> <td>174</td> <td>Trinidad</td> <td>ROR</td> <td>SEP 1947</td> <td>SEP 1947</td>	2(9 El Chorro	140	42.7	610972.85	992100.77	08 58 32	79 59 25	Pluviográfica / Fluviográfica	PFQQs	174	Trinidad	ROR	SEP 1947	SEP 1947
tras 630 192 675961.61 1026355.68 09 16 55 79 23 53 Pluviográfica / Fluviográfica / Pluviográfica / Pluviográfic	2	1 Los Cañones	340	104	603045.41	989130.34	08 56 56	80 03 45	Pluviográfica / Fluviográfica	PFQQs	186	Cirí Grande	ROR	SEP 1947	SEP 1947
s 155 47.2 645067.88 1004050.90 09 04 53 79 40 48 Pluviográfica / Linmigráfica es 65.0 19.8 652790.64 996646.07 09 00 51 79 36 36 Pluviográfica / Linmigráfica iguel 100 30.5 651993.02 997595.29 09 01 22 79 37 02 Secundaria (Tipo B) / Linmigráfica leights 15.0 4.57 656842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Mareográfica Hill 200 61.0 646756.67 1001476.86 09 03 29 79 35 5 Pluviográfica ést 10.0 30.5 646756.67 1024047.58 09 03 29 79 35 5 Principal (Tipo A) / Linmigráfica iay 10.0 30.5 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Linmigráfica iay 10.0 3.05 619176.66 1034280.22 09 21 20 79 55 45 Principal (Tipo A) / Linmigráfica iay 684 68197.77 1031420.91 09 19 41 79	2.	2 Río Piedras	630	192	675961.61	1026355.68	09 16 55	79 23 53	Pluviográfica / Fluviográfica	PFQ	81	Río Piedras	ROR	ENE 1973	ENE 1973
es 65.0 19.8 652790.64 996646.07 09 00 51 79 36.36 Pluviográfica / Linnigráfica liguel 100 30.5 651993.02 997595.29 09 01 22 79 37 02 Secundaria (Tipo B) / Linnigráfica 15.0 4.57 656842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Mareográfica 15.0 30.5 658953.00 990618.47 08 57 34 79 33 15 Pluviográfica / Mareográfica 108 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Linnigráfica 108 32.9 617621.23 1024047.58 09 15 47 79 58 53 Principal (Tipo A) / Mareográfica 13 30.5 619176.66 1034280.22 09 21 20 79 58 53 Principal (Tipo A) / Mareográfica 13 44 684 668187.77 1031420.91 79 28 07 Pluviográfica 14 50 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.	3 Cascadas	155	47.2	645067.88	1004050.90	09 04 53	79 40 48	Pluviográfica	Ь			ROR		FEB 1967
iguel 100 30.5 651993.02 997595.29 09 01 22 79 37 02 Secundaria (Tipo B) / Limnigráfica deights 15.0 4.57 65842.80 991664.02 08 58 08 79 32 58 Principal (Tipo A) deights 15.0 4.57 65842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Mareográfica Hill 200 61.0 646756.67 1001476.86 09 03 29 79 39 53 Pluviográfica fest 10.8 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Limnigráfica lays 10.0 3.05 619176.66 1034280.22 09 21 20 79 55 45 Principal (Tipo A) / Mareográfica lays 10.0 3.05 619176.66 1034280.22 09 21 20 79 55 45 Principal (Tipo A) / Mareográfica	5,	4 Miraflores	65.0	19.8	652790.64	996646.07	09 00 51	79 36 36	Pluviográfica / Linnigráfica	bΓ		Miraflores	ROR	NOV 1909	NOV 1909
feights 10.1 650468.14 991664.02 08 58 08 79 32 58 Principal (Tipo A) feights 15.0 4.57 656842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Mareográfica feights 100 30.5 658953.00 990618.47 08 57 34 79 33 15 Pluviográfica fill 200 61.0 646756.67 1001476.86 09 03 29 79 39 53 Pluviográfica fest 10.8 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Limnigráfica lays 10.0 3.05 619176.66 1034280.22 09 21 20 79 55 45 Principal (Tipo A) / Mareográfica lays 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	2:	5 Pedro Miguel	100	30.5	651993.02	997595.29	09 01 22	79 37 02	Secundaria (Tipo B) / Limnigráfica	MLE		Gatún	ROR	ENE 1908	ENE 1908
deights 15.0 4.57 656842.80 991286.03 08 57 56 79 34 24 Pluviográfica / Mareográfica Heights 100 30.5 658953.00 990618.47 08 57 34 79 33 15 Pluviográfica Hill 200 61.0 646756.67 1001476.86 09 03 29 79 39 53 Pluviográfica fest 108 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Limnigráfica lay ⁵ 10.0 3.05 619176.66 1034280.22 09 21 20 79 54 53 Principal (Tipo A) / Mareográfica lay ⁵ 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	2	5 FAA	33.0	10.1	659468.14	991664.02	08 58 08	79 32 58	Principal (Tipo A)	M			ROR		ABR 1998
deights 100 30.5 658953.00 990618.47 08 5734 79 33 15 Pluviográfica Hill 200 61.0 646756.67 1001476.86 09 03 29 79 39 53 Pluviográfica fest 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Limnigráfica lay ⁵ 10.0 3.05 619176.66 1034280.22 09 21 20 79 54 53 Principal (Tipo A) / Mareográfica 2244 684 68187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	2,	7 Diablo Heights	15.0	4.57	656842.80	991286.03	08 57 56	79 34 24	Pluviográfica / Mareográfica	bΓ		Pacífico	ROR	ENE 1983	ENE 1983
Hill 200 61.0 646756.67 1001476.86 09 03 29 79 39 53 Pluviográfica /est 108 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Limnigráfica Lay ⁵ 10.0 3.05 619176.66 1034280.22 09 21 20 79 54 53 Principal (Tipo A) / Mareográfica 2244 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	23	8 Balboa Heights	100	30.5	658953.00	990618.47	08 57 34	79 33 15	Pluviográfica	Ь			ROR		ENE 1881
lest 108 32.9 617621.23 1024047.58 09 15 47 79 55 45 Principal (Tipo A) / Linmigráfica lay 3 10.0 3.05 619176.66 1034280.22 09 21 20 79 54 53 Principal (Tipo A) / Mareográfica 2244 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	23	9 Empire Hill	200	61.0	646756.67	1001476.86	09 03 29	79 39 53	Pluviográfica	Ь			ROR		ABR 1883
tay ⁵ 10.0 3.05 619176.66 1034280.22 09 21 20 79 54 53 Principal (Tipo A) / Mareográfica 2244 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	3(9 Gatún West	108	32.9	617621.23	1024047.58	09 15 47	79 55 45	Principal (Tipo A) / Linnigráfica	ML		Gatún	ROR	ENE 1997	ENE 1997
2244 684 668187.77 1031420.91 09 19 41 79 28 07 Pluviográfica	3.	l Limón Bay ⁵	10.0	3.05	619176.66	1034280.22	09 21 20	79 54 53	Principal (Tipo A) / Mareográfica	MLT		Mar Caribe	ROR	ENE 1997	ENE 1997
	3,	2 Limpio ⁶	2244	684	668187.77	1031420.91	09 19 41	79 28 07	Pluviográfica	Ь			ROR		FEB 1998

RED DE ESTACIONES HIDROMETEOROLÓGICAS

				Coundonodes ITPM		Opposedor	Campling			op oor y			J	
		Elevación	Elevación	Coordenac		Coordenadas Geograncas	Ceogranicas	Tino de Estación ²	Parámetros ³		go 0	Región ⁴	kegistro desde	Registro desde
No.	Nombre .	pie		X	Y	Latitud Norte	Oeste				Mar		(Nivel)	(Precipitación)
33	Jagua	1790	546	604803.95	965871.90	08 44 14	80 02 50	Principal (Tipo A)	M			ROR		FEB 1998
34	34 Vistamares	3178	696	675618.97	1021100.86	09 14 04	79 24 05	Principal (Tipo A)	M			ROR		ABR 1998
35	35 Frijolito	1145	349	641044.44	1019241.13	09 13 08	79 42 58	Pluviográfica	P			ROR		ABR 1998
36	36 Esperanza			680931.35	1040510.46	09 24 35	79 21 08	Pluviográfica	P			ROR		JUN 1998
37	37 Arca Sonia	870	265	663154.07	1016500.57	09 11 36	79 30 54	Pluviográfica	P			ROR		FEB 1999
38	38 Chamón	2100	640	684689.32	1033032.04	09 20 31	79 19 06	Pluviográfica	P			ROR		NOV 1999
39	39 Amador ⁷	5.00	1.52	661109.94	985896.36	08 55 00	79 32 05	Temperatura del Mar / Pluviográfica / Mareográfica	TPL		Pacífico	ROR		NOV 2005
40	40 Cerro Cama	394	120	620263.82	997917.71	09 0136	79 54 21	Pluviográfica	Ь			ROR		ABR 2000
41	41 Dos Bocas	750	229	672245.75	1045201.60	09 27 09	79 25 52	Pluviográfica	P			ROR		$MAY\ 2000$
42	42 Gasparillal	1135	346	608250.98	979793.60	08 51 47	80 00 56	Principal (Tipo A)	M			ROR		JUN~2000
43	43 Nuevo Vigía ¹¹	265	80.8	654884.29	1024036.767	09 15 42	79 35 23	Limnigráfica	Г		Alhajuela	ROR	JUL 2000	
44	44 Gold Hill	290	180	649164.00	999855.91	09 02 36	79 38 34	Pluviográfica	P			ROR		ENE 2001
45	45 Boca de Uracillo	30.0	9.14	590689.12	992219.75	08 58 33	80 10 30	Pluviográfica / Fluviográfica	PFQQs	365	Indio	ROCC	JUL 1979	1999 NON
46	46 Canoa	40.00	12.2	548683.67	982197.43	08 53 09	80 33 26	Pluviográfica / Fluviográfica	FQQs	571	Coclé del Norte ROCC		SEP 1983	DIC 1999
47	47 Batatilla	45.0	13.7	554879.17	985644.76	08 55 01	80 30 03	Pluviográfica / Fluviográfica	FQQs	882	Toabré	ROCC J	JUN 1958	DIC 1999
48	48 Los Hules	575	175.3	581333.03	984402.31	08 54 19	80 15 36	Pluviográfica	P			ROCC		ABR 2002
49	49 Bateales			547696.36	964428.03	08 43 30	80 33 59	Pluviográfica	P			ROCC		ABR 2002
50	50 Indio Los Chorros			596058.25	968553.35	08 45 42	80 07 36	Pluviográfica	P			ROCC		$ABR\ 2002$
51	51 Chisná	685	208.8	557357.77	971280.13	08 47 13	80 28 42	Pluviográfica	P			ROCC		ABR 2002
52	52 Palmarazo			537997.60	965603.38	08 44 09	80 39 16	Pluviográfica	P			ROCC		ABR 2002
53	53 El Limón de Loma Grande	260	79.3	558727.57	979047.57	08 51 26	80 27 57	Pluviográfica	P			ROCC		JUN 2002
54	54 San Vicente ⁸			563099.55	982392.24	08 53 15	80 25 34	Pluviográfica / Fluviográfica	PFQ	725	Toabré	ROCC	DIC 2001	NOV 2002
55	55 Las Marías ⁹	574	175	585608.13	983363.84	08 53 45	80 13 17	Principal (Tipo A) / Fluviográfica	MFQQs	46.7	Uracillo	ROCC 5	SEP 2004	OCT 2002
56	56 Caño Quebrado Abajo	106	32.4	629022.30	995516.47	09 00 17	79 49 34	Fluviográfica	FQQs	67.0	Caño Quebrado	ROR	OCT 2002	
57	57 Tres Hermanas	39.7	12.1	590001.66	995120.46	20 00 60	80 10 52	Fluviográfica	FQ	383	Indio	ROCC	ENE 2002	
58	58 El Fraile			551203.00	972762.96	08 48 17	80 32 03	Principal (Tipo A)	M			ROCC		FEB 2003
59	59 Rancheria			557455.98	966562.39	08 46 46	80 05 05	Principal (Tipo A)	M			ROCC		MAR 2004
09	60 Coclé del Norte			546912.03	1002839.37	09 04 21	80 34 23	Pluviográfica	P			ROCC		ABR 2004
61	61 Boca de Tucue			573925.08	967568.15	08 45 11	80 19 40	Pluviográfica	P			ROCC		MAR 2004
62	62 San Pedro			585370.53	965397.40	08 44 00	80 13 26	Pluviográfica	Р			ROCC		MAR 2004
63	63 Alto Los Darieles	700	213.4	580324.99	974208.03	08 48 47	80 16 10	Principal (Tipo A)	M			ROCC		MAR 2004
64	64 Zanguenga	368	112	624565.90	98.886686	08 57 17	79 52 01	Pluviográfica	Ь			ROR		MAR 2004

RED DE ESTACIONES HIDROMETEOROLÓGICAS

				Coordenadas UTM ¹		Coordenadas Geográficas	Geográficas			Área de	Dío o Logo o		Registro	Dogistro doedo
No.	Nombre	Elevación Elevación pie m	Elevación m	X	Y	Latitud Norte	Longitud Oeste	${ m Tipo}$ de Estación 2	Parámetros³	drenaje (km²)	Mar Mar	gión ⁴	desde (Nivel)	(Precipitación)
65	65 Nuevo San Juan	77.5	23.6	77.5 23.6 647161.44 1018925.75	1018925.75	09 12 57	79 39 37	Fluviográfica	FQ	87.1	Gatuncillo ROR ENE 2006	ROR	ENE 2006	
99	66 El Silencio	443	135	135 591326.72	980274.39	08 52 04	80 10 10	Fluviográfica	FQQs	111	Indio	ROCC	ROCC ENE 2006	
67	67 Culebra ¹⁰			648316.00	648316.00 1000992.00	09 03 11	79 39 02	Principal (Tipo A)	M			ROR		MAY2006
89	68 Sardinilla ¹⁰			645153.00	1004998.00	09 05 22	79 40 45	Principal (Tipo A)	M			ROR		MAY2006
69	69 Corozal Oeste ¹²			656675.00	656675.00 993032.00 08 58 50 79 34 29	08 58 50	79 34 29	Principal (Tipo A)	M			ROR		MAR 2005

Coordenadas UTM, Zona 17.

² Estaciones Hidrométricas (Linnigráficas, Fluviográficas, Mareográficas, Temperatura del Mar); Estaciones Meteorológicas (Principales Tipo A, Secundarias Tipo B, Pluviográficas).

³ Nota: P = Precipitación, L = Nivel de Lago o Marea, F=Nivel de Río, T = Temperatura del mar, M = Meteorológicos (precipitación, temperatura del aire, velocidad, dirección y ráfaga del viento; humedad relativa, radiación solar, presión barométrica), Q = Caudal, QS= Caudal de sedimentos, E = Evaporación).

⁴ROR: Región Oriental, ROCC: Región Occidental.

⁵La estación Limón Bay registra la temperatura del mar Caribe desde septiembre del 2001.

⁶La estación Limpio fue suspendida en diciembre del 1999, por vandalismo.

La estación Amador registra la temperatura del Océano Pacífico desde abril del 1990 y las elevaciones de la marea desde el 23 de noviembre de 2004.

La estación San Vicente no registra niveles de río desde mayo del 2003, por vandalismo.

⁹La estación Las Marías no registra lluvia desde mayo del 2003, por vandalismo.

¹⁰Registran visibilidad, además de los otros parámetros meteorológicos que se mide en una estación Tipo A.

¹¹La estación Nuevo Vigía fue desactivada el 1 de marzo de 2006.

¹²La estación Corozal Oeste registra evaporación de tanque a partir del 4 de marzo de 2005 y desde el 1 de agosto de 2006 los demás parámetros meteorológicos.

